Vitillo

CRIMPING PARAMETERS CHART

BRAIDED HOSES
Tubi trecciati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
TEKNO/1SN EN 853 1SN - SAE100 R1AT (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS	.03 **16.0** n.s.	.04 18.0 n.s.	.05 18.6 n.s.	.06 20.5 n.s.	.08 23.4 n.s.	.10 27.0 n.s.	.12 30.8 n.s.	.16 39.1 n.s.	.20 **48.5** n.s.	.24 **57.0** n.s.	.32 **69.4** n.s.
	B1SC FOR STANDARD FITTINGS		.04 **16.0** n.s.	.05 **17.8** n.s.	.06 **20.0** n.s.	.08 **23.6** n.s.	.10 **27.4** n.s.	.12 **30.2** n.s.	.16 **37.9** n.s.			
	B1T FOR STANDARD FITTINGS	.03 15.4 n.s.	.04 16.4 n.s.	.05 18.2 n.s.	.06 20.1 n.s.	.08 24.2 n.s.	.10 26.4 n.s.	.12 30.8 n.s.	.16 38.9 n.s.	.20 48.3 n.s.	.24 54.2 n.s.	
	B12T FOR STANDARD FITTINGS					.08 23.5 n.s.	.10 26.4 n.s.	.12 30.8 n.s.				
TEKNO/2SN EN 853 2SN - SAE100 R2AT (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS	.03 **16.7** n.s.	.04 **19.0** n.s.	.05 **19.6** n.s.	.06 **21.3** n.s.	.08 **24.4** n.s.	.10 **28.2** n.s.	.12 **32.0** n.s.	.16 **40.3** n.s.	.20 **51.0** n.s.	.24 **59.0** n.s.	.32 **72.7** n.s.
	B2T FOR STANDARD FITTINGS	.03 15.7 n.s.	.04 18.0 n.s.	.05 20.2 n.s.	.06 21.4 n.s.	.08 25.6 n.s.	.10 28.5 n.s.	.12 32.0 n.s.	.16 41.0 n.s.	.20 50.0 n.s.	.24 57.5 n.s.	
	B12T FOR STANDARD FITTINGS					.08 24.4 n.s.	.10 27.2 n.s.	.12 32.0 n.s.				
TEKNO/1ST EN 853 1ST - SAE100 R1A	B1R.. FOR STANDARD FITTINGS	.03 15.2 18	.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25	.10 28.2 28	.12 32.2 34	.16 39.8 37	.20 46.6 43	.24 53.0 47	.32 66.2 62
TEKNO/2ST EN 853 2ST - SAE100 R2A	B2R.. FOR STANDARD FITTINGS	.03 17.6 18.5	.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25	.10 29.0 28	.12 33.5 34	.16 41.2 37	.20 50.8 43	.24 56.7 47	.32 69.5 64
TEKNO/1SC EXCEED AN857 1SC (scelta consigliata) (recommended option)	B1SC.. FOR STANDARD FITTINGS		.04 **15.3** n.s.	.05 **16.8** n.s.	.06 **18.6** n.s.	.08 **22.5** n.s.	.10 **26.4** n.s.	.12 **29.2** n.s.	.16 **36.9** *3			
	B1K FOR STANDARD FITTINGS		.04 15.0 n.s.	.05 16.3 n.s.	.06 18.6 n.s.	.08 22.7 n.s.	.10 26.4 n.s.	.12 29.5 n.s.	.16 37.9 n.s.	.20 44.8 n.s.	.24 50.8 n.s.	.32 64.6 n.s.
TEKNO/2SC EXCEED AN857 2SC (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 **18.2** n.s.	.05 **19.0** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.4** n.s.	.12 **31.1** n.s.	.16 **39.1** n.s.	.20 **48.7** n.s.	.24 **56.2** n.s.	.32 **71.0** n.s.
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 18.0 n.s.	.06 20.0 n.s.	.08 23.8 n.s.	.10 27.8 n.s.	.12 30.3 n.s.	.16 37.9 n.s.			
TEKNO/1SC PLUS EXCEED AN857 1SC	B1SC FOR STANDARD FITTINGS		.04 15.3 n.s.	.05 16.8 n.s.	.06 18.6 n.s.	.08 22.5 n.s.	.10 26.4 n.s.	.12 29.2 n.s.	.16 36.9 *3			
	B1K FOR STANDARD FITTINGS		.04 15.0 n.s.	.05 16.3 n.s.	.06 18.6 n.s.	.08 22.7 n.s.	.10 26.4 n.s.	.12 29.5 n.s.	.16 37.9 n.s.	.20 44.8 n.s.	.24 50.8 n.s.	.32 64.6 n.s.

BRAIDED HOSES
Tubi trecciati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
TEKNO/2SC PLUS EXCEED AN857 2SC (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 **18.2** n.s.	.05 **19.0** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.4** n.s.	.12 **31.1** n.s.	.16 **39.1** n.s.	.20 **48.7** n.s.	.24 **56.2** n.s.	.32 **71.0** n.s.
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 18.0 n.s.	.06 20.0 n.s.	.08 23.8 n.s.	.10 27.8 n.s.	.12 30.3 n.s.	.16 37.9 n.s.			
STRONGER/1 SAE 100 R16 (scelta consigliata) (recommended option)	B1R FOR STANDARD FITTINGS	.03 **15.4** 18	.04 **17.3** 21	.05 **18.6** 22	.06 **20.5** 23	.08 **25.2** 25	.10 **27.4** 28	.12 **31.0** 34	.16 **39.0** 37	.20 **45.7** 43		
	B12T..N FOR STANDARD FITTINGS	.03 16.2 n.s.	.04 18.1 n.s.	.05 18.4 n.s.	.06 20.0 n.s.	.08 23.2 n.s.	.10 26.2 n.s.					
	B1SC FOR STANDARD FITTINGS		.04 16.1 n.s.	.05 17.6 n.s.	.06 19.5 n.s.	.08 23.4 n.s.	.10 26.6 n.s.	.12 29.0 n.s.	.16 38.1 n.s.			
STRONGER/2 EXCEED SAE 100 R16 (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 18.5 n.s.	.05 19.0 n.s.	.06 21.3 n.s.	.08 23.4 n.s.	.10 27.7 n.s.	.12 31.2 n.s.				
	B1R FOR STANDARD FITTINGS		.04 **17.2** 21	.05 **19.2** 22	.06 **21.5** 23	.08 **25.5** 25	.10 **28.5** 28	.12 **32.5** 34	.16 **40.0** 37	.20 **47.4** 43		
TEKNOJACK	B12T..N FOR STANDARD FITTINGS		.04 19.0 n.s.		.06 20.3 n.s.							
FORTHREE	B2R FOR STANDARD FITTINGS		.04 19.0 21		.06 24.0 23	.08 26.8 25	.10 30.3 28	.12 34.8 34	.16 42.1 37			
TEKNOMASTER 2SN	B2R FOR STANDARD FITTINGS		.04 17.6 21	.05 20.0 22	.06 22.9 23	.08 26.0 25	.10 29.7 28	.12 33.6 34	.16 41.6 37			
ALPI 3300	B1SC FOR STANDARD FITTINGS		.04 15.6 ns	.05 16.9 ns	.06 18.8 ns	.08 22.5 ns	.10 28.0 ns	.12 30.5 ns	.16 37.9 ns			
ALPI 4000 (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04	.05 **19.0** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.3** n.s.	.12 **31.1** n.s.	.16 **39.0** n.s.			
	B1SC FOR STANDARD FITTINGS		.04 **15.3** ns	.05 18.0 ns	.06 20.0 ns	.08 23.8 ns	.10 27.7 ns	.12 30.3 ns	.16 37.8 ns			

BRAIDED HOSES
Tubi trecciati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
SLIM (scelta consigliata) (recommended option)	B1SC FOR STANDARD FITTINGS		.04 15.0 n.s.	.05 16.8 n.s.	.06 18.2 n.s.	.08 21.9 n.s.		.12 28.7 n.s.				
	B1K FOR STANDARD FITTINGS		.04 **14.3** n.s.	.05 **15.7** n.s.	.06 **17.3** n.s.	.08 **21.7** n.s.			.16 **35.3** n.s.			
	B7R FOR STANDARD FITTINGS	.03 **12.3** n.s.										
SERVOCOMANDO	B1SC FOR STANDARD FITTINGS		.04 15.5 n.s.	.05 17.0 n.s.	.06 18.6 n.s.	.08 22.5 n.s.						
LIFT-PLUS EN 81.2	B12T..N FOR STANDARD FITTINGS										.24 56.8 n.s.	.32 71.0 n.s.
	B1SC FOR STANDARD FITTINGS							.12 29.2 n.s.	.16 36.4 n.s.			
	B1R FOR STANDARD FITTINGS									.20 45.6 43		
SEWER CLEANING	B1SC FOR STANDARD FITTINGS					.08 22.5 n.s.		.12 29.1 n.s.	.16 36.9 *3			
	B1R FOR STANDARD FITTINGS					.08 24.3 25		.12 31.3 34	.16 * 37			
VULCAN /1 EXCEED EN853 1SN SAE R1AT	B1R FOR STANDARD FITTINGS	.03 15.2 18	.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25	.10 28.2 28	.12 32.2 34	.16 39.8 37	.20 46.6 43	.24 53.0 47	.32 66.2 62
VULCAN /2 EXCEED EN853 2SN SAE R2AT	B2R.. FOR STANDARD FITTINGS	.03 17.6 18.5	.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25	.10 29.0 28	.12 33.5 34	.16 41.2 37	.20 50.8 43	.24 56.7 47	.32 69.5 64
VULCAN AIR EXCEED EN857 1SC	B1SC.. FOR STANDARD FITTINGS		.04 - n.s.	.05 - n.s.	.06 - n.s.	.08 - n.s.	.10 - n.s.	.12 - n.s.	.16 36.9 n.s.			
	B1K FOR STANDARD FITTINGS		.04 - n.s.	.05 - n.s.	.06 - n.s.	.08 - n.s.	.10 - n.s.	.12 - n.s.	.16 37.3 n.s.	.20 44.3 n.s.	.24 51.6 n.s.	.32 - n.s.
	B1T FOR STANDARD FITTINGS									.20 45.3 n.s.	.24 52.6 n.s.	

BRAIDED HOSES
Tubi trecciati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
ICEBERG/1 EXCEED EN853 1SN SAE 100 R1AT	B1R FOR STANDARD FITTINGS	.03 15.2 18	.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25	.10 28.2 28	.12 32.2 34	.16 39.8 37	.20 46.6 43	.24 53.0 47	.32 66.2 62
ICEBERG/2 EXCEED EN853 2SN SAE 100 R2AT	B2R FOR STANDARD FITTINGS	.03 17.6 18.5	.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25	.10 29.0 28	.12 33.5 34	.16 41.2 37	.20 50.8 43	.24 56.7 47	.32 69.5 64
ICEBERG/3	B2R FOR STANDARD FITTINGS		.04 19.0 21		.06 24.0 23	.08 26.8 25	.10 30.3 28	.12 34.8 34	.16 42.1 37			
ICEBERG/1SC EXCEED EN857 1SC	B1SC FOR STANDARD FITTINGS		.04 15.3 n.s.	.05 16.8 n.s.	.06 18.6 n.s.	.08 22.5 n.s.	.10 26.4 n.s.	.12 29.2 n.s.	.16 36.9 *3			
	B1K FOR STANDARD FITTINGS		.04 15.0 n.s.	.05 16.3 n.s.	.06 18.6 n.s.	.08 22.7 n.s.	.10 26.4 n.s.	.12 29.5 n.s.	.16 37.9 n.s.	.20 44.8 n.s.	.24 50.8 n.s.	.32 64.6 n.s.
ICEBERG/2SC EXCEED EN857 2SC (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 **18.2** n.s.	.05 **19.0** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.4** n.s.	.12 **31.1** n.s.	.16 **39.1** n.s.	.20 **48.7** n.s.	.24 **56.2** n.s.	.32 **71.0** n.s.
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 18.0 n.s.	.06 20.0 n.s.	.08 23.8 n.s.	.10 27.8 n.s.	.12 30.3 n.s.	.16 37.9 n.s.			
EVERGREEN/1SN EXCEED EN853 1SN SAE100 R1AT (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS	.03 **16.0** n.s.	.04 18.0 n.s.	.05 18.6 n.s.	.06 20.5 n.s.	.08 23.4 n.s.	.10 27.0 n.s.	.12 30.8 n.s.	.16 39.1 n.s.	.20 **48.5** n.s.	.24 **57.0** n.s.	.32 **69.4** n.s.
	B1SC FOR STANDARD FITTINGS		.04 **16.0** n.s.	.05 **17.8** n.s.	.06 **20.0** n.s.	.08 **23.6** n.s.	.10 **27.4** n.s.	.12 **30.2** n.s.	.16 **37.9** n.s.			
EVERGREEN/2SN EXCEED EN853 2SN SAE100 R2AT	B12T..N FOR STANDARD FITTINGS	.03 16.7 n.s	.04 19.0 n.s	.05 19.6 n.s	.06 21.3 n.s	.08 24.4 n.s	.10 28.2 n.s	.12 32.0 n.s	.16 40.3 n.s	.20 51.0 n.s	.24 59.0 n.s	.32 72.7 n.s
EVERGREEN/1ST EXCEED EN853 1ST SAE100 R1A	B1R.. FOR STANDARD FITTINGS	.03 15.2 18	.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25	.10 28.2 28	.12 32.2 34	.16 39.8 37	.20 46.6 43	.24 53.0 47	.32 66.2 62
EVERGREEN/2ST EXCEED EN853 2ST SAE100 R2A	B2R.. FOR STANDARD FITTINGS	.03 17.6 18.5	.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25	.10 29.0 28	.12 33.5 34	.16 41.2 37	.20 50.8 43	.24 56.7 47	.32 69.5 64
EVERGREEN/1SC EXCEED EN857 1SC	B1SC.. FOR STANDARD FITTINGS		.04 15.3 n.s.	.05 16.8 n.s.	.06 18.6 n.s.	.08 22.5 n.s.	.10 26.4 n.s.	.12 29.2 n.s.	.16 36.9 *3			
	B1K FOR STANDARD FITTINGS		.04 15.0 n.s.	.05 16.3 n.s.	.06 18.6 n.s.	.08 22.7 n.s.	.10 26.4 n.s.	.12 29.5 n.s.	.16 37.9 n.s.	.20 44.8 n.s.	.24 50.8 n.s.	.32 64.6 n.s.

BRAIDED HOSES
Tubi trecciati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
EVERGREEN/2SC EXCEED EN857 2SC (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 **18.2** n.s.	.05 **19.0** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.4** n.s.	.12 **31.1** n.s.	.16 **39.1** n.s.	.20 **48.7** n.s.	.24 **56.2** n.s.	.32 **71.0** n.s.
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 18.0 n.s.	.06 20.0 n.s.	.08 23.8 n.s.	.10 27.8 n.s.	.12 30.3 n.s.	.16 37.9 n.s.			
FOREVER/1SN EN853 1SN SAE100 R1AT (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS	.03 **16.0** n.s.	.04 18.0 n.s.	.05 18.6 n.s.	.06 20.5 n.s.	.08 23.4 n.s.	.10 27.0 n.s.	.12 30.8 n.s.	.16 39.1 n.s.	.20 **48.5** n.s.	.24 **57.0** n.s.	.32 **69.4** n.s.
	B1SC FOR STANDARD FITTINGS		.04 **16.0** n.s.	.05 **17.8** n.s.	.06 **20.0** n.s.	.08 **23.6** n.s.	.10 **27.4** n.s.	.12 **30.2** n.s.	.16 **37.9** n.s.			
FOREVER/2SN EN853 2SN SAE100 R2AT	B12T..N FOR STANDARD FITTINGS	.03 16.7 n.s.	.04 19.0 n.s.	.05 19.6 n.s.	.06 21.3 n.s.	.08 24.4 n.s.	.10 28.2 n.s.	.12 32.0 n.s.	.16 40.3 n.s.	.20 51.0 n.s.	.24 59.0 n.s.	.32 72.7 n.s.
FOREVER/1ST EN853 1ST SAE100 R1A	B1R.. FOR STANDARD FITTINGS	.03 15.2 18	.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25	.10 28.2 28	.12 32.2 34	.16 39.8 37	.20 46.6 43	.24 53.0 47	.32 66.2 62
FOREVER/2ST EN853 2ST SAE100 R2A	B2R.. FOR STANDARD FITTINGS	.03 17.6 18.5	.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25	.10 29.0 28	.12 33.5 34	.16 41.2 37	.20 50.8 43	.24 56.7 47	.32 69.5 64
FOREVER/1SC EN857 1SC	B1SC FOR STANDARD FITTINGS		.04 15.3 n.s.	.05 16.8 n.s.	.06 18.6 n.s.	.08 22.5 n.s.	.10 26.4 n.s.	.12 29.2 n.s.	.16 36.9 *3			
	B1K FOR STANDARD FITTINGS		.04 15.0 n.s.	.05 16.3 n.s.	.06 18.6 n.s.	.08 22.7 n.s.	.10 26.4 n.s.	.12 29.5 n.s.	.16 37.9 n.s.	.20 44.8 n.s.	.24 50.8 n.s.	.32 64.6 n.s.
FOREVER/2SC EN857 2SC (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 **18.2** n.s.	.05 **19** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.4** n.s.	.12 **31.1** n.s.	.16 **39.1** n.s.	.20 **48.7** n.s.	.24 **56.2** n.s.	.32 **71.0** n.s.
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 18.0 n.s.	.06 20.0 n.s.	.08 23.8 n.s.	.10 27.8 n.s.	.12 30.3 n.s.	.16 37.9 n.s.			
PREMIER	B12T..N FOR STANDARD FITTINGS		.04 **18.0** n.s.	.05 **18.8** n.s.	.06 **20.6** n.s.	.08 **23.5** n.s.	.10 **27.6** n.s.	.12 **31.0** n.s.	.16 **39.1** n.s.			
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 17.8 n.s.	.06 20.0 n.s.	.08 23.8 n.s.	.10 28.0 n.s.	.12 30.3 n.s.	.16 37.9 n.s.			

*3 Note: Controllare con tampone No-Go diametro 19.65 mm
*3 Note: Check with No-Go gauge diameter 19.65 mm

Nota: Data la larga tolleranza ammessa sulle dimensioni dei tubi, le quote di pressatura espresse sono indicative, si consiglia pertanto di utilizzare sempre i tamponi passa non passa per verificare il giusto collasso del codolo.

Note: Considering the wide tolerance admitted on the hoses dimensions, the expressed crimping diameters have to be considered as approximate; therefore, it is recommended to use always the go – no go gauge in order to check the tail collapse.

SPIRAL HOSES
Tubi spiralati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
TEKNOSPIR/4SP EN856 4SP (scelta consigliata) (recommended option) (impieghi severi) (severe applications)	B9R FOR STANDARD FITTINGS		.04 **19.2** 21		.06 **23.2** 23	.08 **26.3** 27	.10 **29.8** 31	.12 **33.5**	.16 **41.8** 48	.20 **54.6** 54	.24 **59.2** 62	.32 **74.6** 64
	KB4SH FOR INTERLOCK FITTINGS							.12 *33.9* 15 in. 52 out.	.16 *41.5* 17 in. 67 out.			
TEKNOSPIR/4SH EN856 4SH (impieghi severi) (severe applications)	KB4SH FOR INTERLOCK FITTINGS						.10 *31.8* 14 in. 47.5out	.12 *33.9* 15 in. 52 out.	.16 *41.5* 17 in. 67 out.	.20 *50.2* 21.5 in. 74 out.	.24 *57.2* 22 in. 81 out.	.32 *74.2* 29 in. 85 out.
	B4SH FOR STANDARD FITTINGS									.20 48.0 54	.24 58.0 62	.32 70.5 64
TEKNOSPIR/12 EN856 R12 SAE 100 R12	B9R FOR STANDARD FITTINGS				.06 23.0 23	.08 26.5 27	.10 30.4 31	.12 34.0 36	.16 41.9 48	.20 52.9 54	.24 58.0 62	
	B4SH FOR STANDARD FITTINGS										.24 58.9 62	.32 70.6 64
TEKNOSPIR/13 EN856 R13 SAE 100 R13	KB4SH FOR INTERLOCK FITTINGS							.12 34.7 15 in. 52 out.	.16 42.2 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTINGS									.20 53.8 21.5 in. 74 out.	.24 61.3 22 in. 81 out.	.32 78.2 29 in. 85 out.
TEKNOSPIR/15 SAE 100 R15	KB4SH FOR INTERLOCK FITTINGS							.12 33.9 15 in. 52 out.	.16 41.5 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTINGS									.20 54.6 21.5 in. 74 out.	.24 61.3 22 in. 81 out.	.32 77.4 29 in. 85 out.
ELASTIK/4000	B9R FOR STANDARD FITTINGS							.12 34.0 36	.16 42.0 48	.20 53.2 54		
ELASTIK/5000	KB4SH FOR INTERLOCK FITTING							.12 33.9 15 in. 52 out.	.16 41.3 17 in. 67 out.	.20 50.5 21.5 in. 74 out.		
	B9R FOR STANDARD FITTINGS							.12 33.2 36	.16 41.6 48			

SPIRAL HOSES
Tubi spiralati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
ELASTIK/6000	KB4SH FOR INTERLOCK FITTING							.12 33.9 15 in. 52 out.	.16 41.3 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTING									.20 53.3 21.5 in. 74 out.		
TEKNOBLAST AS/NZS 4233.2	WB4 FOR WATERBLAST-FITTINGS				.06 24.4 15 in. 47 out.	.08 28.2 16 in. 52 out.		.12 38.6 19 in. 54 out.				
TEKNOBLAST PLUS AS/NZS 4233.2	WB4 FOR WATERBLAST-FITTINGS				.06 24.6 15 in. 47 out.	.08 29.1 16 in. 52 out.		.12 38.9 19 in. 54 out.				
TEKNOBLAST SUPERB AS/NZS 4233.2	WB6 FOR WATERBLAST-FITTINGS					.08 - -		.12 - -				
EVERGREEN/4SP EXCEED EN856 4SP (scelta consigliata) (recommended option) (per impieghi severi) (severe applications)	B9R FOR STANDARD FITTINGS		.04 **19.2** 21		.06 **23.2** 23	.08 **26.3** 27	.10 **29.8** 31	.12 **33.5** 36	.16 **41.8** 48	.20 **54.6** 54	.24 **59.2** 62	.32 **74.6** 64
	KB4SH FOR INTERLOCK FITTING							.12 *33.9* 15 in. 52 out.	.16 *41.5* 17 in. 67 out.			
EVERGREEN/4SH EXCEED EN856 4SH (per impieghi severi) (severe applications)	KB4SH FOR INTERLOCK FITTING						.10 *31.8* 14 in. 47.5out	.12 *33.9* 15 in. 52 out.	.16 *41.5* 17 in. 67 out.	.20 *50.2* 21.5 in. 74 out.	.24 *57.2* 22 in. 81 out.	.32 *74.2* 29 in. 85 out.
	B4SH FOR STANDARD FITTINGS									.20 48.0 54	.24 58.0 62	.32 70.5 64
TK-EVERGREEN/12 EXCEED EN856 R12 SAE100 R12	B9R FOR STANDARD FITTINGS				.06 23.0 23	.08 26.5 27	.10 30.4 31	.12 34.0 36	.16 41.9 48	.20 52.9 54	.24 58.0 62	
	B4SH FOR STANDARD FITTINGS										.24 58.9 62	.32 70.6 64
TK-EVERGREEN/13 EXCEED EN856 R13 SAE100 R13	KB4SH FOR INTERLOCK FITTING							.12 34.7 15 in. 52 out.	.16 42.2 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTING									.20 53.8 21.5 in. 74 out.	.24 61.3 22 in. 81 out.	.32 78.2 29 in. 85 out.

SPIRAL HOSES
Tubi spiralati

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
EVERGREEN/R15 SAE100 R15	KB4SH FOR INTERLOCK FITTING							.12 33.9 15 in. 52 out.	.16 41.5 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTING									.20 54.6 21.5 in. 74 out.	.24 61.3 22 in. 81 out.	.32 77.4 29 in. 85 out.
FOREVER/4SP EN 856 4SP (scelta consigliata) (recommended option) (per impieghi severi) (severe applications)	B9R FOR STANDARD FITTINGS		.04 **19.2** 21		.06 **23.2** 23	.08 **26.3** 27	.10 **29.8** 31	.12 **33.5** 36	.16 **41.8** 48	.20 **54.6** 54	.24 **59.2** 62	.32 **74.6** 64
	KB4SH FOR INTERLOCK FITTING							.12 *33.9* 15 in. 52 out.	.16 *41.5* 17 in. 67 out.			
FOREVER/4SH EN 856 4SH (per impieghi severi) (severe applications)	KB4SH FOR INTERLOCK FITTING						.10 *31.8* 14 in. 47.5out	.12 *33.9* 15 in. 52 out.	.16 *41.5* 17 in. 67 out.	.20 *50.2* 21.5 in. 74 out.	.24 *57.2* 22 in. 81 out.	.32 *74.2* 29 in. 85 out.
	B4SH FOR STANDARD FITTINGS									.20 48.0 54	.24 58.0 62	.32 70.5 64
FOREVER/R12 EN 856 R12 - SAE 100R12	B9R FOR STANDARD FITTINGS				.06 23.0 23	.08 26.5 27	.10 30.4 31	.12 34.0 36	.16 41.9 48	.20 52.9 54	.24 58.0 62	
	B4SH FOR STANDARD FITTINGS										.24 58.9 62	.32 70.6 64
TK-FOREVER/R13 EN 856 R13 - SAE 100R13	KB4SH FOR INTERLOCK FITTING							.12 34.7 15 in. 52 out.	.16 42.2 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTING									.20 53.8 21.5 in. 74out.	.24 61.3 22 in. 81 out.	.32 78.2 29 in. 85 out.
FOREVER/R15 SAE 100 R15	KB4SH FOR INTERLOCK FITTING							.12 33.9 15 in. 52 out.	.16 41.5 17 in. 67 out.			
	KBH13 FOR INTERLOCK FITTING									.20 54.6 21.5 in. 74 out.	.24 61.3 22 in. 81 out.	.32 77.4 29 in. 85 out.

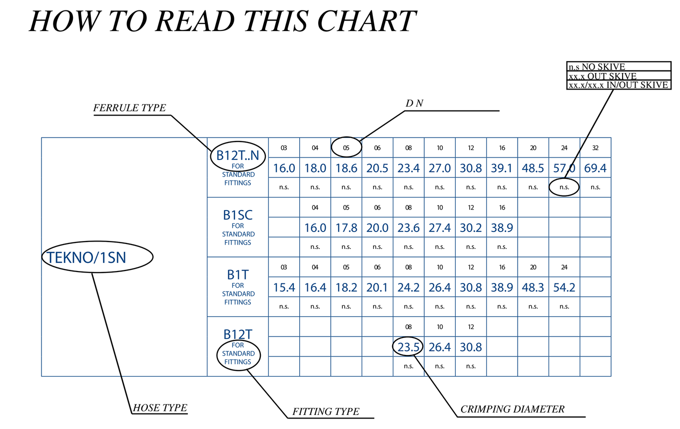
(Bold = scelta consigliata / recommended option; italic = impieghi severi / severe applications)

CLEANER HOSES
Tubi idropulitrice

NOMINAL BORE / INTERNAL DIAMETER	DN	5	6	8	10	12	16	19	25	31	38	51
	inches	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
	mm	4.8	6.4	7.9	9.5	12.8	16	19	25.4	31.8	38.1	50.8
TEKNOJET/1SN IEC-60335-2 (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 18.0 n.s.	.05 18.6 n.s.	.06 20.5 n.s.	.08 23.4 n.s.						
	B1R FOR STANDARD FITTINGS		.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25						
	B1SC FOR STANDARD FITTINGS		.04 **16.0** n.s.	.05 **17.8** n.s.	.06 **20.0** n.s.	.08 **23.6** n.s.						
TEKNOJET/2SN IEC-60335-2 (scelta consigliata) (recommended option)	B2R FOR STANDARD FITTINGS		.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25						
	B12T..N FOR STANDARD FITTINGS		.04 **19.0** n.s.	.05 **19.6** n.s.	.06 **21.3** n.s.	.08 **24.4** n.s.						
TEKNOJET/1SC IEC-60335-2	B1SC FOR STANDARD FITTINGS		.04 15.3 n.s.	.05 16.8 n.s.	.06 18.6 n.s.	.08 22.5 n.s.						
TEKNOJET/2SC IEC-60335-2 (scelta consigliata) (recommended option)	B12T..N FOR STANDARD FITTINGS		.04 **18.2** n.s.	.05 **19.0** n.s.	.06 **20.9** n.s.	.08 **23.5** n.s.						
	B1SC FOR STANDARD FITTINGS		.04 16.2 n.s.	.05 18.0 n.s.	.06 20.0 n.s.	.08 23.8 n.s.						
TEKNOJET/1ST IEC-60335-2	B1R FOR STANDARD FITTINGS		.04 17.2 21	.05 18.8 22	.06 21.0 23	.08 25.4 25						
TEKNOJET/2ST IEC-60335-2	B2R FOR STANDARD FITTINGS		.04 17.8 21	.05 20.3 22	.06 23.0 23	.08 25.7 25						
TEKNOJET/PLUS 1SN	B1R FOR STANDARD FITTINGS		.04 17.2 21	.05 18.8 22	.06 21.0 23							
TEKNOJET/PLUS 2SN	B2R FOR STANDARD FITTINGS		.04 17.8 21	.05 20.3 22	.06 23.0 23							

** Please check compatibility with hose external diameter, that may change depending on the manufacturer's
** Verificare la compatibilità con il diametro esterno del tubo che potrebbe variare a seconda della casa costruttrice.

HOW TO READ THIS CHART



VITILLO technical department rev. 0918-40

TERMOPLASTIC HOSES

HOSES		DN/DASH SIZE	0,2/-03	0,2/-04	0,3/-05	0,4/-06	0,5/-08	0,6/-10	0,7/-12	1,0/-12	1,2/-20	1,5/-24	2,0/-32
		FERRULES	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
R7* THERMO-PLASTIC * Diametri di pressatura su tubo ZEC * Crimping diameter on ZEC hose	B7R		B7R03 11.8 n.s.	B7R04 14.1 n.s.	B7R05 16.2 n.s.	B7R06 18.2 n.s.	B7R08 22.2 n.s.	B7R10 25.6 n.s.	B7R12 29.0 n.s.	B7R16 36.8 n.s.			
	B1K			B1K04 14.0 n.s.	B1K05 17.0 n.s.	B1K06 17.6 n.s.	B1K08 22.8 n.s.						
R7 MTH1* THERMO-PLASTIC * Diametri di pressatura su tubo ZEC * Crimping diameter on ZEC hose	B7R		B7R03 11.8 n.s.	B7R04 14.1 n.s.	B7R05 16.2 n.s.	B7R06 18.2 n.s.	B7R08 22.2 n.s.	B7R10 25.6 n.s.	B7R12 29.0 n.s.	B7R16 36.8 n.s.			
	B1K			B1K04 13.8 n.s.	B1K05 17.0 n.s.	B1K06 18.0 n.s.	B1K08 21.7 n.s.						

TEXTILE HOSES

HOSES		DN/DASH SIZE	0,2/-03	0,2/-04	0,3/-05	0,4/-06	0,5/-08	0,6/-10	0,7/-12	1,0/-12	1,2/-20	1,5/-24	2,0/-32
		FERRULES	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
1TE	B7R		B7R03 12.1	B7R04 14.1	B7R05 15.9	B7R06 18	B7R08 21.8	B7R10 25.1	B7R12 28.2				
	B1K			B1K04 14.3	B1K05 16.7	B1K06 17.2	B1K08 21.5	B1K10 25.8	B1K12 28.7	B1K16 37.1			
2TE	B7R			B7R04 14.6	B7R05 16.3	B7R06 18.5	B7R08 22	B7R10 26.1					
	B1K			B1K04 14.8	B1K05 17	B1K06 18	B1K08 21.8	B1K10 26.6	B1K12 29.6			B1K24 52.0	
			B1T03 15.3					B3R10 26	B3R12 30.9	B3R16 40.4	B3R20 45.7		
3TE			B1T03 15.8	B3R04 15.9	B3R05 18.1	B3R06 20.3	B3R08 22.8	B3R10 27.0	B3R12 31.9	B3R16 40.6	B3R20 46.1	B1T24 53.5	B12T32N 69.0
R3 TEXTILES HOSES	B3R						B3R08 25.0	B3R10 28.5	B3R12 35.8	B3R16 41.2			
R4 TEXTILES HOSES LISCIO (SMOOTH)									B3R12 34.0	B3R16 42.4	B3R20 48.8	B12T24N 58.7	B12T32N 71.7
R4 SAUGFLEX X- PLUS-G LISCIO (SMOOTH)									B3R12 33.5	B3R16 41.9	B3R20 47.8	B1T24 54.7	B12T32N 73.7
R4 SAUGFLEX CORRUGATO (CORRUGATED)									B3R12 30.8	B3R16 41.7	B3R20 48.7	B1T24 55.0	B12T32N 70.2
R6 TEXTILES HOSES	B7			B7R04 14.8	B7R05 17.2	B7R06 18.9	B7R08 23.2	B7R10 25.8	B7R12 29.9	B7R16 37.6			
	B1K			B1K04 15.0	B1K05 16	B1K06 18.4	B1K08 22.6	B1K10 26.1	B1K12 29.7	B1K16 36.3			
R8* TEXTILES HOSES			B7R03 11.8	B1K04 14.0	B1K05 16.7	B1K06 17.7	B1K08 22.4						
R18 TEXTILES HOSES	B1SC			B1SC04 15.3		B1SC06 20.0							

PTFE

HOSES		DN/DASH SIZE	0,2/-03	0,2/-04	0,3/-05	0,4/-06	0,5/-08	0,6/-10	0,7/-12	1,0/-12	1,2/-20	1,5/-24	2,0/-32
		FERRULES	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	2"
PTFE LISCIO (SMOOTH) 1BRAID *	BPTFE		BPTFE03 11.0	BPTFE04 13.1	BPTFE05 14.7	BPTFE06 16.2	BPTFE08 20.8	BPTFE10 22.2	BPTFE12 27.9	BPTFE16 34.5			
PTFE LISCIO (SMOOTH) 2BRAIDS *			BPTFE03 12.0	B7R04 12.8	B7R05 15.5	B7R06 16.8	BPTFE08 21.1	B7R10 24.4		B7R16 34.7			
PTFE CORRUGATO (CORRUGATED)	BPTFEC			BPTFEC04 12.8		BPTFEC06 16.0	BPTFEC08 19.4	BPTFEC10 22.2	BPTFEC12 26.2	BPTFEC16 33.6	BPTFEC20 45.0	BPTFEC24 50.4	BPTFEC32 63
	B7R			B7R04 12.8				B7R10 24.3					

* VALIDO ANCHE PER TUBO CONDUTTIVO
(ALSO VALID FOR CONDUCTING TUBE)

ASSEMBLY INSTRUCTIONS
Istruzioni di assemblaggio

1- Select the hose (A), ferrules (B) and inserts (C)

2- Cut the hose squarely using a rotary steel blade to the required length.

3- If skiving is required, remove all rubber cover to the "skiving length" specified in the table, avoiding damages to the steel wires reinforcement.

4- Place the ferrule fully onto the hose.
Push the insert fully into the hose.
Select the "COLLAPSE CONTROL MANOREL"
Insert the MANOREL into the insert bore.
The "NO GO" part of the MANOREL must fully go into the insert bore. .
Remove the MANOREL.

5-Crimp the ferrule to the diameter specified in the table

6- Inspect the crimp diameter by measuring it on each die impressions. All measurements must be taken in the center of ferrule length. All measurements must be according to the specified crimping diameters, within a tolerance +0,01-0,2 mm.

7- Insert the "COLLAPSE CONTROL MANOREL".

8- If the "NO GO" part of the MANDREL stops in the bore the crimping diameter and the bore collapse are correct.

9- If the "NO GO" part of the MANDREL goes through the bore, the crimping diameter must be reduced by increments of 0,1 mm

10- If the "GO" part of the MANDREL does not go through the bore, the crimping diameter must be increased.

For more pretical recommendations regarding the assembly of hydraulic hoses to refer the standard SAE J1273 Feb 2009

HOSE-ASSEMBLY FABRICATION

Persons fabricating hose assemblies should be trained in the proper use of equipment and materials.
Properly assembled fittings are vital to the integrity of a hose assembly. Improperly assembled fittings can separate from the hose and may cause serious injury or property damage from whipping hose, or from fire or explosion of vapor expelled from the hose.

Component Inspection
Prior to assembly, examine components for:

- Configuration and types
- Clean
- Damage on cover
- Nicks
- Diameters
- Obstruction of the tubes within
- More visible defects
- Damage in general
- Lengths suitable
- Swelling
- Machining burrs
- Corrosion

Hose Fittings Compatibility
Pay attention to the hose – fittings compatibility.
Do not use a hose from one manufacturer with a hose fitting from another manufacturer without the consent from the same manufacturers
Safety Equipment
During fabrication, use proper safety equipment, including eye protection, respiratory protection, and adequate ventilation.
Reuse of Hose and Fittings
Do not reuse:
a. Field-attachable fittings that have blown or pulled off hose
b. Any part of hose fittings that were permanently crimped or swaged to hose
c. Hose that has been in service after system checkout
Clean inside of the tubes connected
The tubes connected shares may collect contaminants during processing.
Flush the pipes until they reach an optimum level of cleanliness.

COSTRUZIONE DEL TUBO RACCORDATO

Il personale addetto alla costruzione del tubo raccordato, deve essere opportunamente preparato sull'impiego dei componenti e delle attrezzature specifiche.
Raccordature ben eseguite, sono fondamentali per la vita del tubo flessibile, mentre una raccordatura male eseguita può creare problemi di sfilamento dai raccordi, e causare un pericoloso "effetto frusta" del tubo o peggio, creare possibili incendi od esplosioni per i vapori o per le nebulizzazioni del fluido trasportato.

Controllo dei componenti
Prima della raccordatura esaminare i componenti per:
- Configurazione e tipologia
- Pulizia
- Danni sulla copertura
- Intaccature
- Diametri
- Ostruzioni all'interno dei tubi
- Altri difetti visibili
- Danni in genere
- Lunghezze idonee
- Bave di lavorazione
- Corrosioni

Compatibilità dei tubi e dei raccordi
Porre molta attenzione nella valutazione della compatibilità tubo/raccordo. Non accoppiare
tubo e raccordo provenienti da due produttori diversi senza autorizzazione da parte degli stessi costruttori

Dispositivi di sicurezza
Durante la produzione del tubo raccordato, utilizzare sempre dispositivi di sicurezza personali,
quali occhiali protettivi, mascherine filtranti ed adeguata ventilazione

Riutilizzo dei tubi e dei raccordi
Nella produzione del tubo raccordato non utilizzare mai:
a. Raccordi pressati che si siano sfilati in esercizio
b. Parti di raccordo recuperate da altri tubi raccordati
c. Tubi utilizzati per altre operazioni di controllo e verifica

Pulizia interna dei tubi raccordati
I tubi raccordati possono raccogliere parti contaminanti durante la lavorazione.
Flussare i tubi fino al raggiungimento ad un livello di pulizia ottimale.

1- Scegliere il tubo (A), le boccole (B) e gli inserti (C)

2- Tagliare il tubo alla lunghezza richiesta usando una lama rotante di acciaio.

3- Se è richiesta la spellatura esterna, asportare più gomma della copertura possibile fino alla "lunghezza di spellatura" specificata nella presente tabella, evitando di danneggiare i fili di acciao del rinforzo.

4- Posizionare la boccola sul tubo.
Inserire l'inserto nel tubo.
Selezionare la "SPINA di CONTROLLO COLLASSO"
Inserire la SPINA nel foro dell'inserto.
La parte "Non Passa" deve entrare completamente nel foro dell'inserto.
Rimuovere la SPINA.

5- Pressare la boccola al diametro di pressatura specificato nella tabella.

6- Controllare il diametro di pressatura misurandolo su ogni coppia di morsetti.
Le misure vanno prese al centro della lunghezza della boccola. Tutte le misure prese devono essere in accordo con il diametro di pressatura specificato (+0,01-0,2 mm.).

7- Inserire la "SPINA di CONTROLLO COLLASSO".

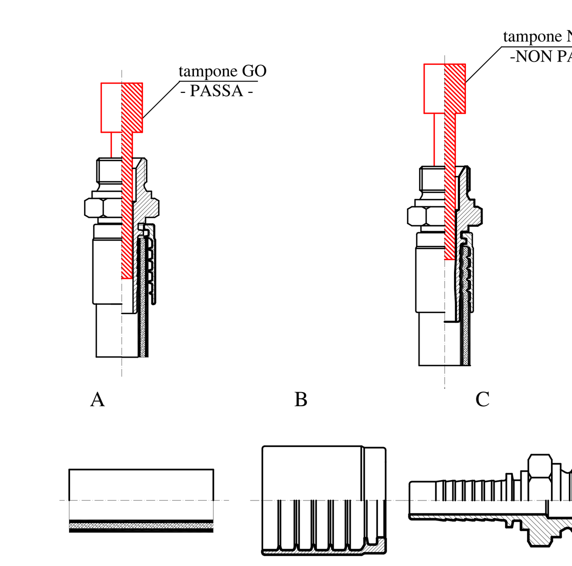
8- Se la parte "Non passa" della "SPINA di CONTROLLO COLLASSO" si blocca nel foro, il diametro di pressatura ed il collasso del foro sono corretti.

9 - Se la parte "Non passa" della "SPINA di CONTROLLO COLLASSO" entra completamente nel foro, il diamentro di pressatura deve essere ridotto, di decimo in decimo

10 -Se la parte "Passa" della "SPINA di CONTROLLO non entra nel foro, il diametro di pressatura deve essere aumentato.

Per ulteriori raccomandazioni pratiche riguardanti l'assemblaggio di tubi idraulici far riferimento alla norma SAE J1273 feb 2009

AFTER PRESSING
DOPO LA PRESSATURA



COLLAPSE CONTROL MANOREL
SPINE CONTROLLO COLLASSO

INSERT BORE COLLAPSE CONTROL
Controllo del collasso

WIRE BRAIDED HOSES STANDARD FITTINGS
Tubo trecciato
Raccordo standard

NOMINAL SIZE		GO, NO GO MANDRELS DIAMETERS (mm) GO	NO-GO
03	3/16"	2.30	2.80
04	1/4"	3.30	3.75
05	5/16"	4.70	5.20
06	3/8"	6.05	6.55
08	1/2"	8.35	8.75
10	5/8"	10.85	11.40
12	3/4"	13.50	13.80
16	1"	18.50	19.20
20	1.1/4"	23.05	23.90
24	1.1/2"	29.80	30.70
32	2"	41.60	42.60

WIRE SPIRAL HOSES STANDARD FITTINGS
Tubo spiralato
Raccordo standard

NOMINAL SIZE		GO, NO GO MANDRELS DIAMETERS (mm) GO	NO-GO
04	1/4"	3.15	3.60
06	3/8"	5.60	6.25
08	1/2"	7.60	8.40
10	5/8"	10.05	10.90
12	3/4"	12.35	13.30
16	1"	17.30	18.35
20	1.1/4"	22.25	23.35
24	1.1/2"	29.15	30.30
32	2"	40.7	42.0

WIRE SPIRAL HOSES INTERLOCK FITTINGS
Tubo spiralato
Raccordo interlock

NOMINAL SIZE		GO, NO GO MANDRELS DIAMETERS (mm) GO	NO-GO
12	3/4"	12.15	13.10
16	1"	16.50	17.55
20	1.1/4"	22.25	23.35
24	1.1/2"	27.15	28.3
32	2"	38.7	40.0

COMPATIBILITY CHART
Tabella di compatibilità

BRAIDED HOSES	B1R	B2R	B1T	B2T	B12T.N	B12T	B1SC	B1K	B3R	B9R	B4SH	B7R	KB4SH	KBH	WB4	WB6
TEKNO/1SN			■		■	■	■									
TEKNO/2SN				■	■	■										
TEKNO/1ST	■															
TEKNO/2ST		■														
TEKNO/1SC							■	■								
TEKNO/2SC					■		■									
TEKNO/1SC PLUS							■									
TEKNO/2SC PLUS					■		■									
STRONGER/1	■				■		■									
STRONGER/2	■				■											
TH 17	■				■		■									
TEKNOJACK					■											
FORTHREE		■														
TEKNOMASTER 2SN		■														
SLIM							■	■				■				
SERVOCOMANDO							■									
LIFT-PLUS	■	■														
SEWER-CLEANING	■						■									
VULCAN/1	■															
VULCAN/2		■														
VULCAN/SC1							■	■								
VULCAN/SC2					■		■									
ICEBERG/1	■															
ICEBERG/2		■														
ICEBERG/3		■														
ICEBERG/SC1							■	■								
ICEBERG/SC2					■		■									
EVERGREEN/1SN					■		■									
EVERGREEN/2SN					■											
EVERGREEN/1ST	■															
EVERGREEN/2ST		■														
EVERGREEN/1SC							■	■								
EVERGREEN/2SC					■		■									
FOREVER/1SN					■		■									
FOREVER/2SN					■											
FOREVER/1ST	■															
FOREVER/2ST		■														
FOREVER/1SC							■	■								
FOREVER/2SC					■		■									

SPIRAL HOSES	B1R	B2R	B1T	B2T	B12T.N	B12T	B1SC	B1K	B3R	B9R	B4SH	B7R	KB4SH	KBH	WB4	WB6
TEKNOSPIR/4SP										■			■			
TEKNOSPIR/4SH											■		■			
TEKNOSPIR/12										■	■					
TEKNOSPIR/13													■	■		
TEKNOSPIR/15													■	■		
ELASTIK/4000										■	■					
ELASTIK/5000													■			
TEKNOBLAST															■	
TEKNOBLAST PLUS															■	
TEKNOBLAST SUPERB																■
TK-EVERGREEN/4SP										■			■			
TK-EVERGREEN/4SH											■		■			
TK-EVERGREEN/R12										■	■					
TK-EVERGREEN/R13													■	■		
TK-EVERGREEN/R15													■	■		
TK-FOREVER/4SP										■			■			
TK-FOREVER/4SH											■		■			
TK-FOREVER/R12										■	■					
TK-FOREVER/R13													■	■		
TK-FOREVER/R15													■	■		

CLEANER HOSES	B1R	B2R	B1T	B2T	B12T.N	B12T	B1SC	B1K	B3R	B9R	B4SH	B7R	KB4SH	KBH	WB4	WB6
TEKNOJET/1SN	■				■		■									
TEKNOJET/2SN		■			■											
TEKNOJET/1SC							■									
TEKNOJET/2SC					■		■									
TEKNOJET 1ST	■															
TEKNOJET/2ST		■														
TEKNOJET/PLUS 1SN	■															
TEKNOJET/PLUS 2SN		■														

THERMOPLASTIC/TEXTILES/PTFE HOSES	B1R	B2R	B1T	B2T	B12T.N	B12T	B1SC	B1K	B3R	B9R	B4SH	B7R	KB4SH	KBH	WB4	WB6
R7								■				■				
R7MTH1								■				■				
R3									■							
R6 1TE								■				■				
2TE								■								
R8								■								
R4									■							

We feel better under pressure

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