

Features

- **Connection system:** pulling back the sleeve
- **Disconnection system:** pulling back the sleeve
- **Shut-off system:** poppet valve
- **Connectability:** without pressure
- **Disconnection under pressure:** not allowed
- **Interchangeability:** US market
- Balls latching system
- Internal components with increased flow section

Accessories and spare part kit

See at pages 28-30.



Technical data

Size ◇	DN Nominal diameter		Rated flow		Force to connect		Max. work pressure *		Minimum burst pressure						Fluid spillage cc max.
	mm	inc.	l/min	GPM	N	lb	MPa	PSI	Connected		Male		Female		
									MPa	PSI	MPa	PSI	MPa	PSI	
1/4" 04	6	0.24	22	5.8	60	13.2	27.5	3987	110	15950	160	23200	110	15950	2
3/8" 06	8	0.31	65	17.2	58	12.8	30	4350	160	23200	180	26100	120	17400	3,2
1/2" 08	10	0.41	75	19.8	92	20.3	22	3190	85	12325	90	13050	85	12325	4
3/4" 12	15	0.59	170	50	110	24.2	19	2755	75	10875	75	10875	75	10875	14
1" 16	22	0.87	280	74	97	21.4	15	2175	60	8700	60	8700	60	8700	20
1 1/4" 20	28	1.10	450	119	110	24.2	10	1450	40	5800	50	7250	50	7250	45
1 1/2" 24	34	1.34	450	119	150	33	11	1595	45	6525	45	6525	45	6525	80
2" 32	47	1.85	1400	370	320	70.5	10	1450	40	5800	40	5800	40	5800	150

* Safety factor = 1:4 - For static pressure safety factor 1:2

Pressure drop graph:

test bench to ISO 7241-2 specifications with ISO VG 32 oil at 40°C (104°F) temperature.

Materials:

- Female in steel with wear parts carbonitrided.
- Male in high grade carbon steel, induction hardened.
- Steel hardened valve.
- Surface treatment: zinc plating and Cr III passivation.
- Springs in C98 steel.
- High resistance balls 100 C6.

Seals:

Standard in oilproof NBR (Nitrile Rubber).
On request: Viton, Neoprene, EPDM or other seals.

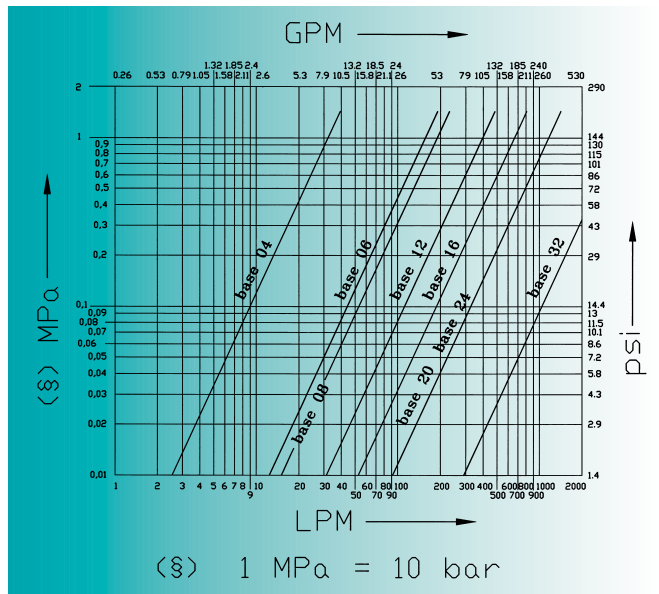
Antiextrusion rings:

In pure PTFE.

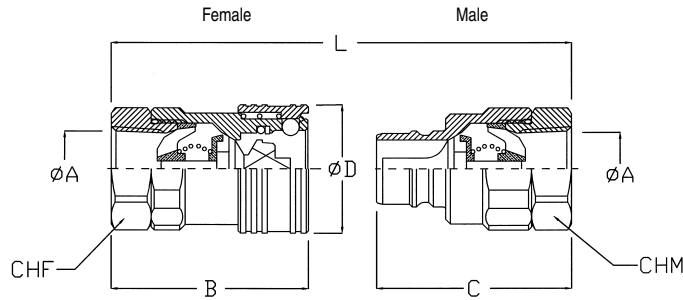
Working temperatures:

with standard seals in NBR (Nitrile Rubber) from -25°C (-13°F) to +125°C (+257°F).

For temperature exceeding these values, the quick-release coupling will be supplied with all components in steel together with the suitable seals.



Series **TNV**



Threaded end	❖	Threaded end	Female		Male		Thread Ø A		Standards	B		C		Ø D		L		CHF		CHM	
			mm	inc.	mm	inc.	mm	inc.		mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.	mm	inc.
A	04	A	* TNV 04 GAS F TNV 04 NPT F	* TNV 04 GAS M TNV 04 NPT M	1/4" BSP 1/4" NPTF	DIN 3852-2-X ANSI B 1.20.3	49,8 49,8	1,96 1,96	49 49	1,93 1,93	24 24	0,94 0,94	84 84	3,31 3,31	22 22	0,87 0,87	22 22	0,87 0,87			
		B	* TNV 04 0/14S F	* TNV 04 0/14S M	7/16" UNF	SAE J1926-1	49,8	1,96	49	1,93	24	0,94	84	3,31	22	0,87	22	0,87			
		C	TNV 04 1/14 NPT F * TNV 04 1/14S F	TNV 04 1/14 NPT M * TNV 04 1/14S M	1/4" NPTF 7/16" UNF	ANSI B 1.20.3 SAE 1926-3	62,8 62,8	2,47 2,47	62 62	2,44 2,44	24 24	0,94 0,94	110 110	4,33 4,33	22 22	0,87 0,87	22 22	0,87 0,87			
A	06	A	* TNV 06 GAS F TNV 06 NPT F	* TNV 06 GAS M TNV 06 NPT M	3/8" BSP 3/8" NPTF	DIN 3852-2-X ANSI B 1.20.3	57 57	2,24 2,24	57 57	2,24 2,24	27 27	1,06 1,06	95,6 95,6	3,76 3,76	24 24	0,94 0,94	24 24	0,94 0,94			
		B	* TNV 06 0/38S F	* TNV 06 0/38S M	9/16" UNF	SAE 1926-1	57	2,24	57	2,24	27	1,06	95,6	3,76	24	0,94	24	0,94			
		C	* TNV 06 1/38 N F TNV 06 1/916 UNF F	* TNV 06 1/38 N M TNV 06 1/916 UNF M	3/8" NPTF 9/16" UNF	ANSI B 1.20.3 SAE 1926-3	71 71	2,80 2,80	71 71	2,80 2,80	27 27	1,06 1,06	123,6 123,6	4,87 4,87	24 24	0,94 0,94	24 24	0,94 0,94			
A	08	A	* TNV 08 GAS F TNV 08 NPT F	* TNV 08 GAS M TNV 08 NPT M	1/2" BSP 1/2" NPTF	DIN 3852-2-X ANSI B 1.20.3	64,3 64,3	2,53 2,53	62,3 62,3	2,45 2,45	34 34	1,34 1,34	108,6 108,6	4,28 4,28	30 30	1,18 1,18	30 30	1,18 1,18			
		B	TNV 08 0/34 UNF F	TNV 08 0/34 UNF M	3/4" UNF	SAE J1926-1	64,3	2,53	62,3	2,45	34	1,34	108,6	4,28	30	1,18	30	1,18			
		C	TNV 08 1/12 NPT F TNV 08 1/34 UNF F	* TNV 08 1/12 NPT M * TNV 08 1/34 UNF M	1/2" NPTF 3/4" UNF	ANSI B 1.20.3 SAE 1926-3	75,5 75,5	2,97 2,97	73,5 73,5	2,89 2,89	34 34	1,34 1,34	131 131	5,16 5,16	30 30	1,18 1,18	30 30	1,18 1,18			
A	12	A	TNV 12 GAS F TNV 12 NPT F	TNV 12 GAS M TNV 12 NPT M	3/4" BSP 3/4" NPTF	DIN 3852-2-X ANSI B 1.20.3	64 64	2,52 2,52	63,5 63,5	2,50 2,50	42 42	1,65 1,65	127,5 127,5	5,02 5,02	36 36	1,42 1,42	36 36	1,42 1,42			
		B	TNV 12 0/1116UN F	TNV 12 0/1116UN M	1 1/16" UN	SAE J1926-1	64	2,52	63,5	2,50	42	1,65	127,5	5,02	36	1,42	36	1,42			
		C	* TNV 12 1/34 N F TNV 12 1/1116UN F	* TNV 12 1/34 N M TNV 12 1/1116UN M	3/4" NPTF 1 1/16" UN	ANSI B 1.20.3 SAE 1926-3	86 86	3,39 3,39	85,5 85,5	3,37 3,37	42 42	1,65 1,65	171,5 171,5	6,75 6,75	36 36	1,42 1,42	36 36	1,42 1,42			
A	16	A	TNV 16 GAS F TNV 16 NPT F	TNV 16 GAS M TNV 16 NPT M	1" BSP 1" NPTF	DIN 3852-2-X ANSI B 1.20.3	70,5 70,5	2,78 2,78	68 68	2,68 2,68	50,5 50,5	1,99 1,99	115,5 115,5	4,55 4,55	46 46	1,81 1,81	46 46	1,81 1,81			
		B	* TNV 16 0/1S F	* TNV 16 0/1S M	1 5/16" UN	SAE J1926-1	70,5	2,78	68	2,68	50,5	1,99	115,5	4,55	46	1,81	46	1,81			
		C	* TNV 16 1/1N F * TNV 16 1/1S F	* TNV 16 1/1N M * TNV 16 1/1S M	1" NPTF 1 5/16" UN	ANSI B 1.20.3 SAE 1926-3	83,5 83,5	3,29 3,29	81 81	3,19 3,19	50,5 50,5	1,99 1,99	141,5 141,5	5,57 5,57	46 46	1,81 1,81	46 46	1,81 1,81			
A	20	A	TNV 20 GAS F TNV 20 NPT F	TNV 20 GAS M TNV 20 NPT M	1 1/4" BSP 1 1/4" NPTF	DIN 3852-2-X ANSI B 1.20.3	96,3 96,3	3,79 3,79	91 91	3,58 3,58	56 56	2,2 2,2	164 164	6,46 6,46	50 50	1,97 1,97	50 50	1,97 1,97			
		B	* TNV 20 0/114S F	* TNV 20 0/114S M	1 5/8" UN	SAE J1926-1	96,3	3,79	91	3,58	56	2,2	164	6,46	50	1,97	36	1,97			
		C	* TNV 20 1/114N F * TNV 20 1/114S F	* TNV 20 1/114N M * TNV 20 1/114S M	1 1/4" NPTF 1 5/8" UN	ANSI B 1.20.3 SAE 1926-3	109 109	4,29 4,29	104 104	4,09 4,09	56 56	2,2 2,2	190 190	7,48 7,48	50 50	1,97 1,97	50 50	1,97 1,97			
A	24	A	* TNV 24 GAS F TNV 24 NPT F	* TNV 24 GAS M TNV 24 NPT M	1 1/2" BSP 1 1/2" NPTF	DIN 3852-2-X ANSI B 1.20.3	90,5 90,5	3,56 3,56	85 85	3,35 3,35	70 70	2,76 2,76	148 148	5,83 5,83	65 65	2,56 2,56	65 65	2,56 2,56			
		B	* TNV 24 0/112S F	* TNV 24 0/112S M	1 7/8" UN	SAE J1926-1	90,5	3,56	85	3,35	70	2,76	148	5,83	65	2,56	65	2,56			
		C	* TNV 24 1/112N F * TNV 24 1/112S F	* TNV 24 1/112N M * TNV 24 1/112S M	1 1/2" NPTF 1 7/8" UN	ANSI B 1.20.3 SAE 1926-3	106 106	4,17 4,17	100 100	3,94 3,94	70 70	2,76 2,76	178 178	7,01 7,01	65 65	2,56 2,56	65 65	2,56 2,56			
A	32	A	* TNV 32 GAS F TNV 32 NPT F	* TNV 32 GAS M TNV 32 NPT M	2" BSP 2" NPTF	DIN 3852-2-X ANSI B 1.20.3	102 102	4,02 4,02	98 98	3,86 3,86	90 90	3,54 3,54	166 166	6,54 6,54	89 89	3,5 3,5	89 89	3,5 3,5			
		B	* TNV 32 0/2S F	* TNV 32 0/2S M	2 1/2" UN	SAE J1926-1	102	4,02	98	3,86	90	3,54	166	6,54	89	3,5	89	3,5			
		C	* TNV 32 1/2N F * TNV 32 1/2S F	* TNV 32 1/2N M * TNV 32 1/2S M	2" NPTF 2 1/2" UN	ANSI B 1.20.3 SAE 1926-3	117 117	4,61 4,61	113 113	4,45 4,45	90 90	3,54 3,54	196 196	7,72 7,72	89 89	3,5 3,5	89 89	3,5 3,5			

❖ Size GAS = BSP *On request