

4BLOCK

4" monoblock submersible pumps sand-resistant

4" monoblock submersible pumps designed as a more economic alternative to traditional borehole pumps without loss of performance and reliability. Supplied with integral capacitor and 20 m power cable for ease of installation.



RANGE OF PERFORMANCE

Flow rate up to 150 l/min (9 m³/h)
Head up to 135 m

LIMITS OF USE

Liquid temperature up to +30°C
Maximum sand content 150 g/m³
Submersion depth up to 40 m

CONSTRUCTION AND SAFETY STANDARDS

EN 60 335-1 EN 60034-1
IEC 335-1 IEC 34-1
CEI 61-150 CEI 2-3



INSTALLATION AND USE

THEY ARE RECOMMENDED FOR PUMPING CLEAN WATER WITH A SAND CONTENT OF UP TO 150 g/m³. DUE TO THEIR HIGH EFFICIENCY AND RELIABILITY, THEY ARE RECOMMENDED FOR DOMESTIC WATER SUPPLIES AS PART OF A PRESSURE SET, OR FOR IRRIGATION.

GUARANTEE 2 YEARS subject to our general terms of sale.

CONSTRUCTION CHARACTERISTICS

- DELIVERY BODY: stainless steel AISI 304 with threaded port ISO 228-1.
- CASE: stainless steel AISI 304.
- IMPELLERS AND DIFFUSERS: technopolymer.
- DIFFUSER HOUSING: stainless steel AISI 304.
- PUMP SHAFT: stainless steel AISI 304.
- PUMP BEARINGS: housing in special technopolymer with stainless steel AISI 316 shaft bushes, chrome oxide coated to resist sand.
- DRIVE COUPLING: stainless steel AISI 316L.
- SCREWS AND CABLE COVER: stainless steel AISI 304.
- MOTOR SHAFT: stainless steel AISI 316 (EN 10088-3 - 1.4104 up to 0.75 kW).
- MOTOR: submersible for continuous duty (dry rewindable).
4BLOCKm: single-phase 220÷240 V - 50 Hz.
4BLOCK: three-phase 380÷415 V - 50 Hz.
- INSULATION: class F. ● PROTECTION: IP 68.
- CHECK VALVE: built into the delivery body.
- DOUBLESEAL: mechanical seal ceramic-graphite-NBR with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.

STANDARD FEATURES:

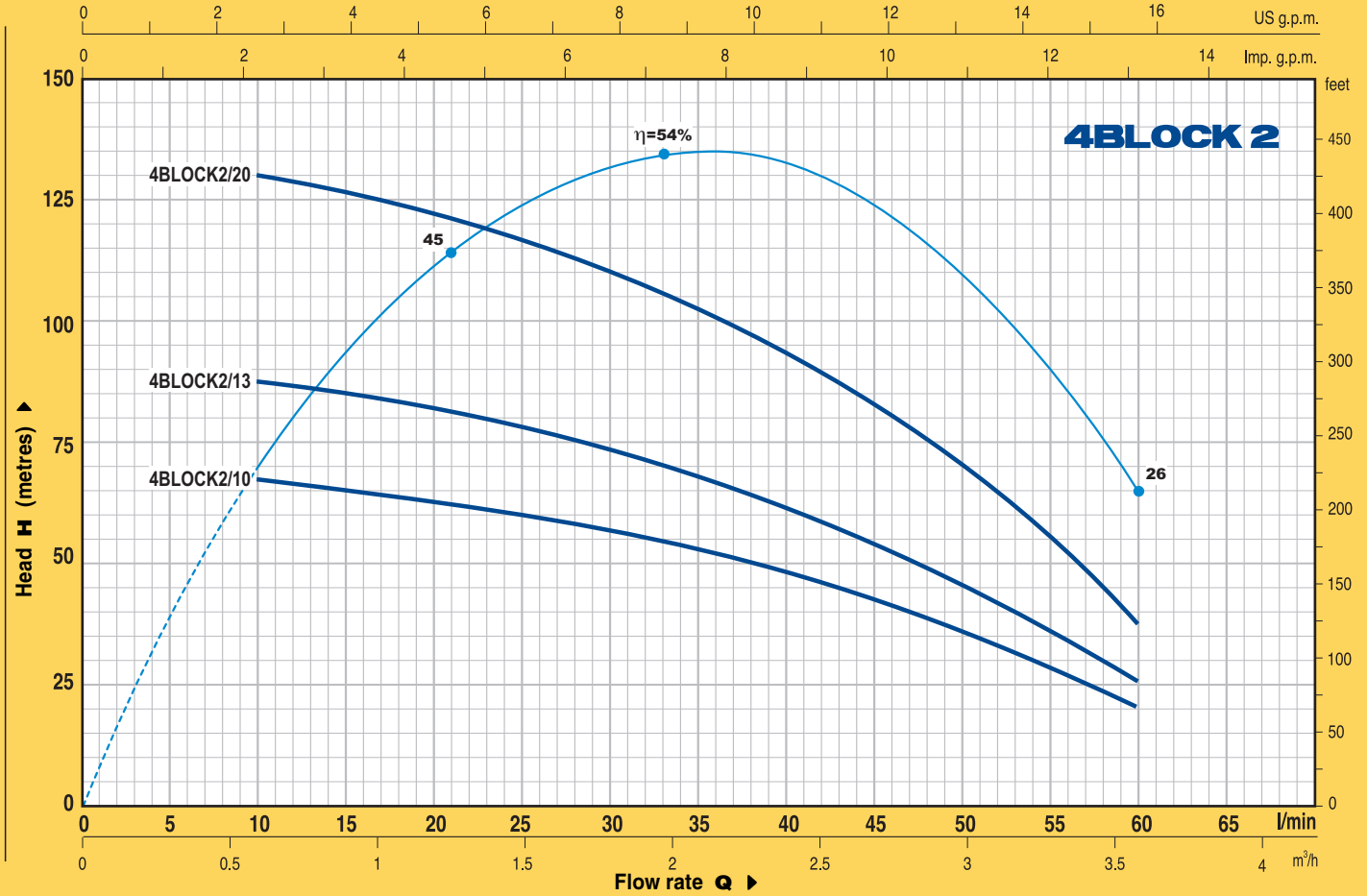
4BLOCKm (single-phase) Motor thermal protection built into the winding.
Internal capacitor.
20 metre flat power cable.

4BLOCK (three-phase) 20 metre flat power cable.

OPTIONS ON REQUEST

- ⇒ 30 metre power cable
- ⇒ other voltages or frequency 60 Hz

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

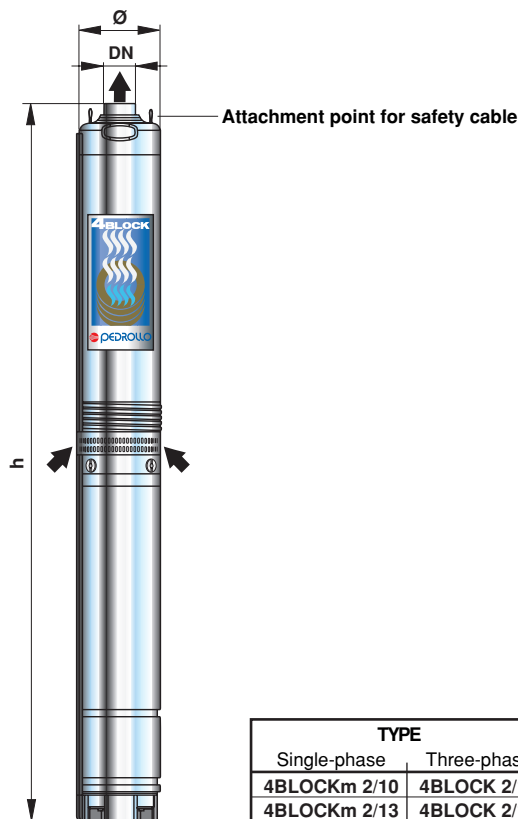


TYPE		POWER		Q	Flow rate						
Single-phase	Three-phase	kW	HP		m³/h	0.6	1.2	1.8	2.4	3.0	3.6
4BLOCKm 2/10	4BLOCK 2/10	0.55	0.75	l/min	0	10	20	30	40	50	60
4BLOCKm 2/13	4BLOCK 2/13	0.75	1	H metres	70	68	63	57	48	36	20
4BLOCKm 2/20	4BLOCK 2/20	1.1	1.5		90	88	82	74	62	46	26
					135	130	122	111	93	71	39

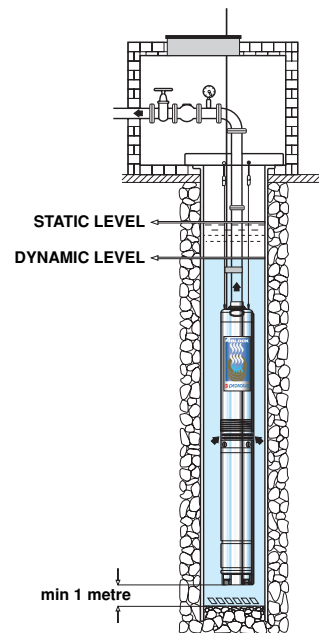
Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

DIMENSIONS AND WEIGHTS

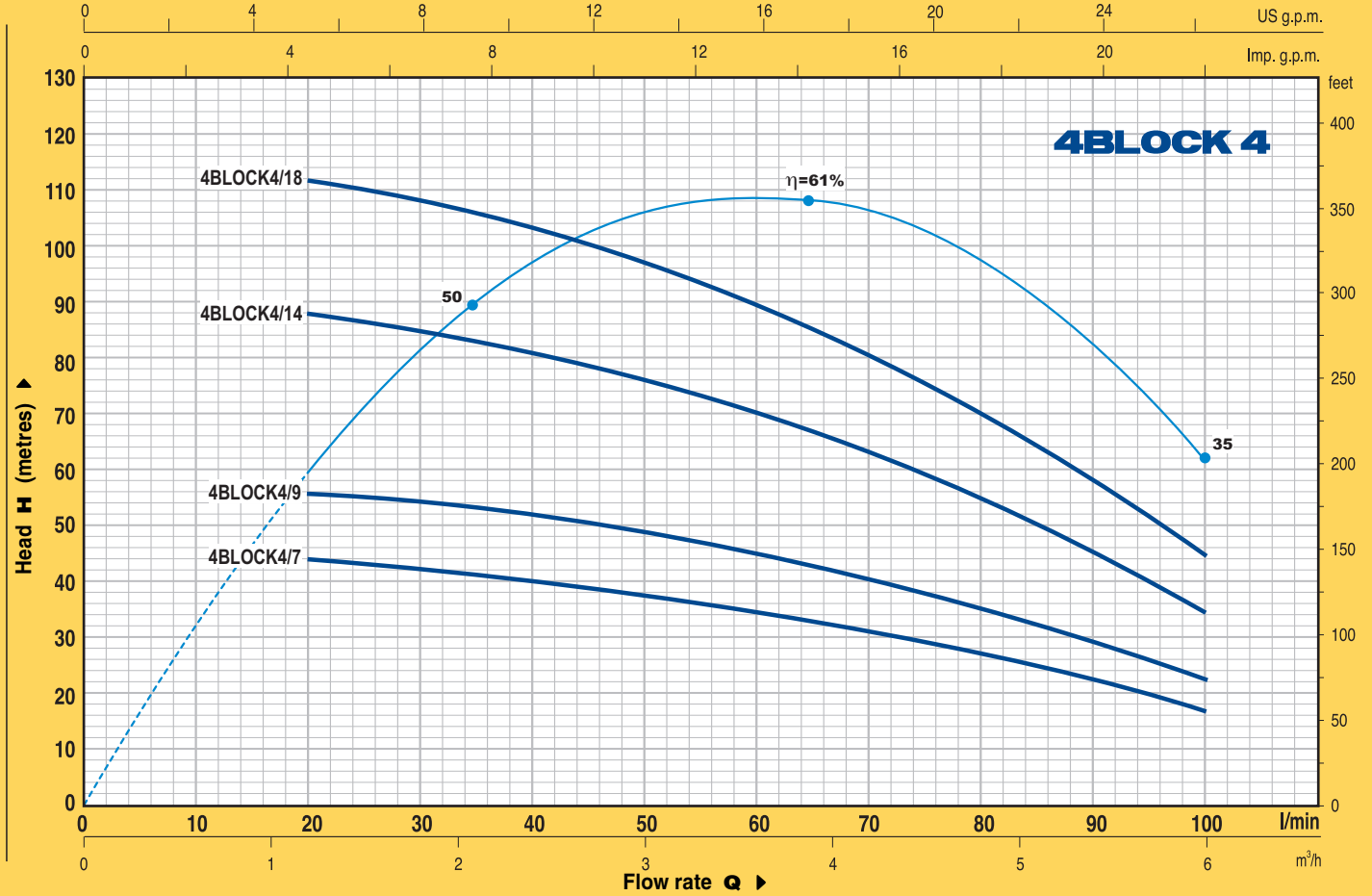


Typical installation



TYPE		PORTS DN	N° stages	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
4BLOCKm 2/10	4BLOCK 2/10	1 1/4"	10	99.5	693/668	10.2	9.0
4BLOCKm 2/13	4BLOCK 2/13		13		774/749	11.7	10.6
4BLOCKm 2/20	4BLOCK 2/20		20		987/927	14.9	12.5

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

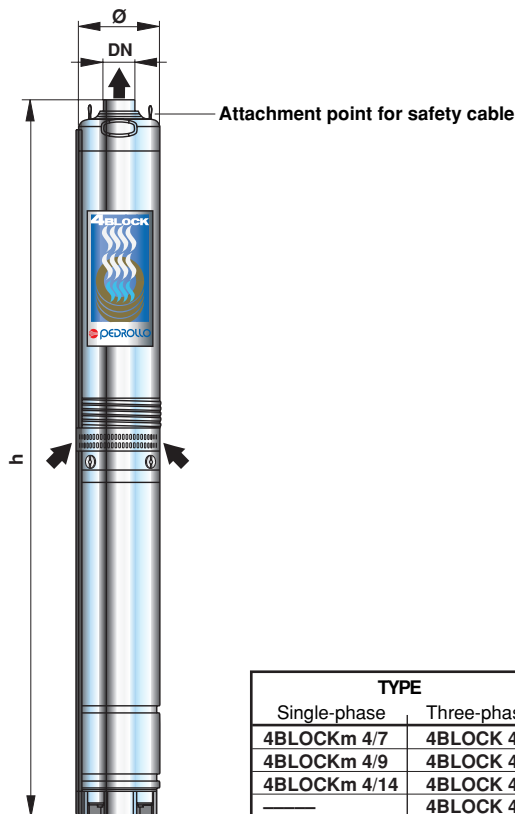


TYPE		POWER		Q	Flow rate												
Single-phase	Three-phase	kW	HP		0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0			
4BLOCKm 4/7	4BLOCK 4/7	0.55	0.75	H metres	0	20	30	40	50	60	70	80	90	100			
4BLOCKm 4/9	4BLOCK 4/9	0.75	1		46	44	42	40	38	35	31.5	27	23	17			
4BLOCKm 4/14	4BLOCK 4/14	1.1	1.5		60	56	54.5	52	49	45	40.5	35	29	23			
—	4BLOCK 4/18	1.5	2		92	88	85	81	76	70	63	54.5	45	35			
—	4BLOCK 4/18	1.5	2		120	112	109	104	98	90	81	70	58	45			

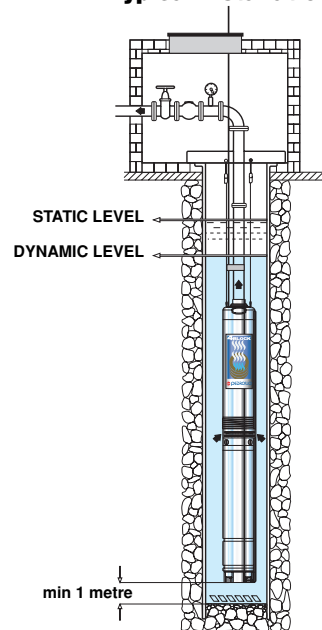
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DIMENSIONS AND WEIGHTS

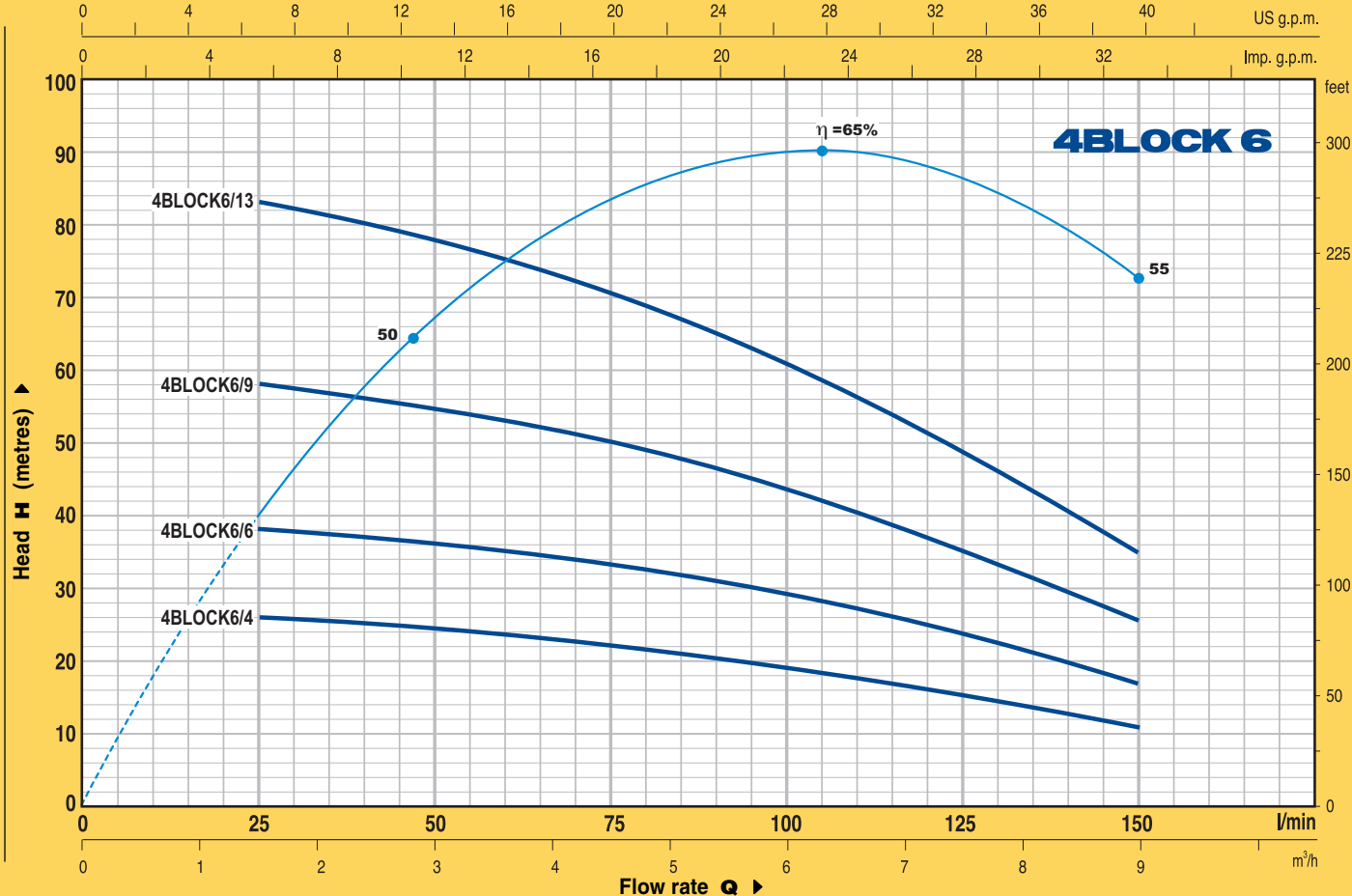


Typical installation



TYPE		PORTS DN	DIMENSIONS mm		kg		
Single-phase	Three-phase		N° stages	Ø	h	1~	3~
4BLOCKm 4/7	4BLOCK 4/7	1 1/4"	7	99.5	663/638	9.9	8.7
4BLOCKm 4/9	4BLOCK 4/9		9		732/707	11.3	10.2
4BLOCKm 4/14	4BLOCK 4/14		14		901/841	14.3	11.9
—	4BLOCK 4/18		18		—/1014	-	15.0

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

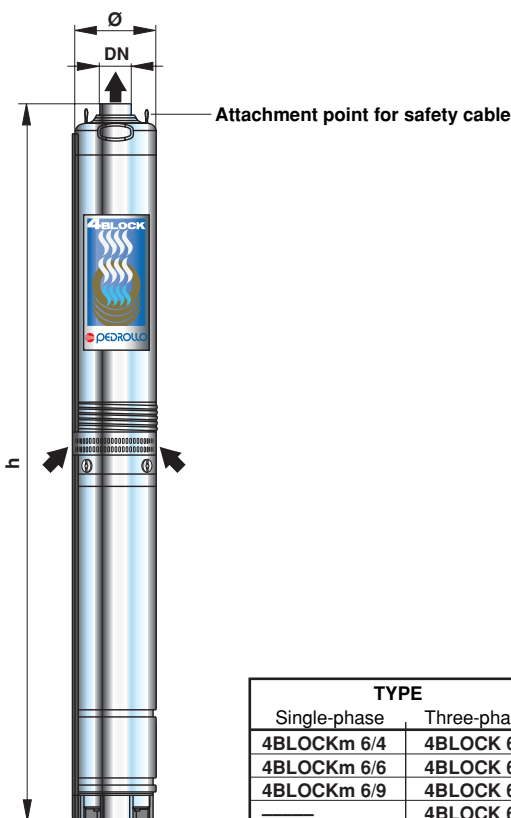


TYPE		POWER		Q	0	1.5	3.0	4.5	6.0	7.5	9.0
Single-phase	Three-phase	kW	HP		0	25	50	75	100	125	150
4BLOCKm 6/4	4BLOCK 6/4	0.55	0.75	H metres	27	26	24	22	19	15	11
4BLOCKm 6/6	4BLOCK 6/6	0.75	1		40	38	36	33	29	24	17
4BLOCKm 6/9	4BLOCK 6/9	1.1	1.5		61	58	54	50	44	35	26
—	4BLOCK 6/13	1.5	2		87	83	78	71	61	49	35

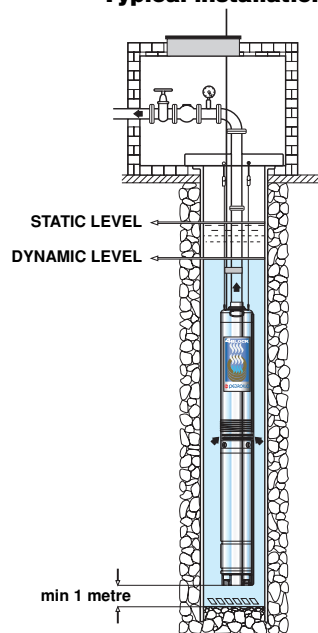
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Tolerance of the performance curves according to EN ISO 9906 App. A.

DIMENSIONS AND WEIGHTS



Typical installation



TYPE		PORTS DN	N° stages	DIMENSIONS mm		kg	
Single-phase	Three-phase			Ø	h	1~	3~
4BLOCKm 6/4	4BLOCK 6/4	1 1/4"	4	99.5	629/604	9.7	8.5
4BLOCKm 6/6	4BLOCK 6/6		6		714/689	11.3	10.2
4BLOCKm 6/9	4BLOCK 6/9		9		864/804	13.9	11.5
—	4BLOCK 6/13		13		—/1008	-	15.4