



Clean water



Domestic use



Civil use



PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **267 m**

INSTALLATION AND USE

3-inch submersible pumps are designed to transfer clean water, making them perfect for household use, irrigation, and small community water systems.

KEY FEATURES

The increased efficiency of 3SR pumps not only saves electricity but also offers economic advantages. Their small size and light build allow for easy installation in wells 3 inches wide or more.

With a blend of hydraulic parts and a high-efficiency motor, 3SR pumps excel in the 3-inch category, capable of handling water with up to **150 g/m³** of sand.

ELECTRIC MOTOR

- **Rewindable** motor in oil bath (non-toxic food-safe oil) 2-pole, 50 Hz
- Voltage:
 - single-phase 230 V
 - three-phase 400 V
- Continuous running duty **S1**
- Insulation: Class F
- Protection rating: IP 68
- Shaft and sleeve: **AISI 304** stainless steel
- Flange coupling dimensions to NEMA standard
- Connector with power cable from:
 - **1.5 m** for power up to 0.75 kW
 - **2.0 m** for power ratings from 1.1 kW

APPLICATION LIMITS

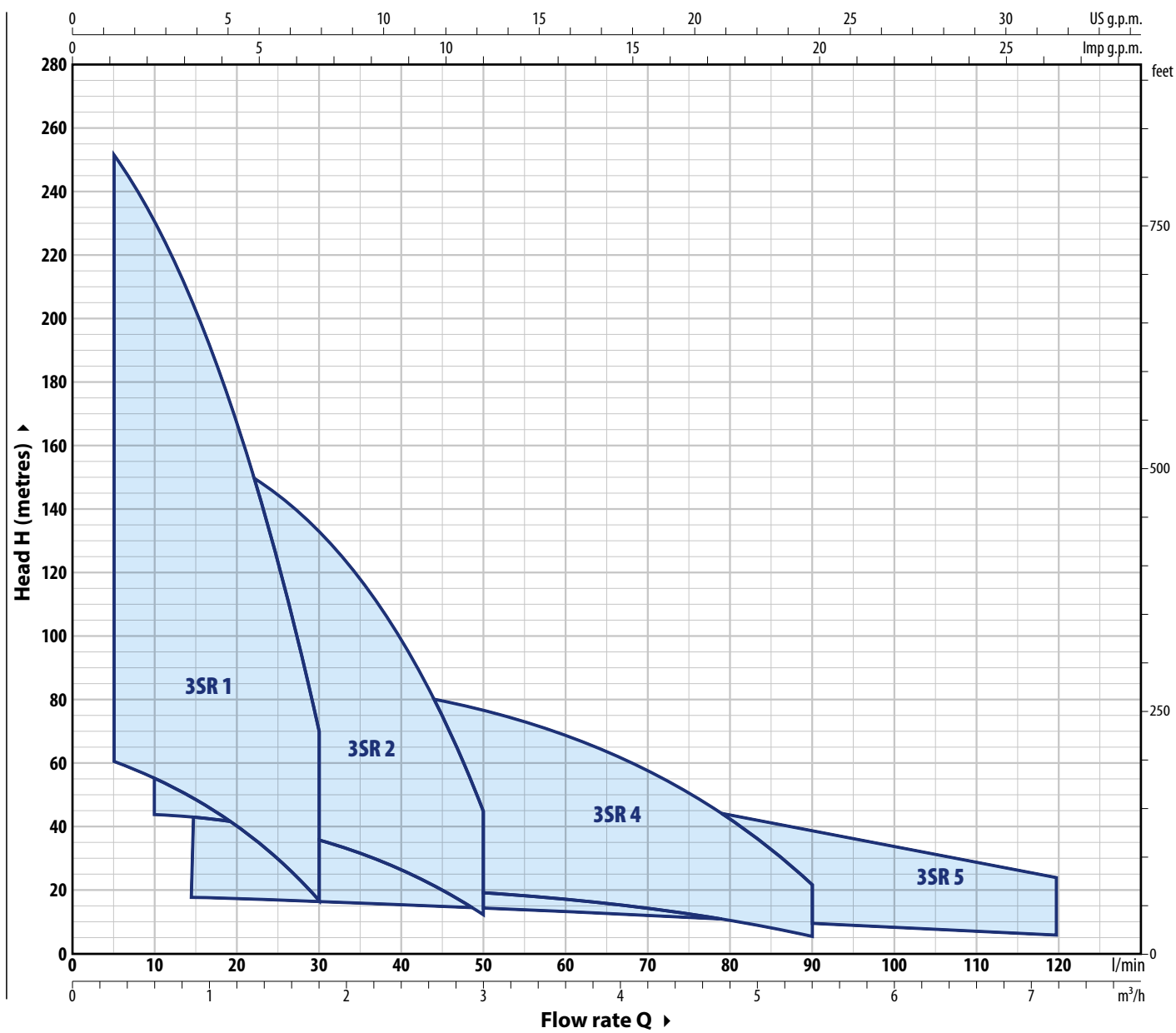
- Liquid temperature up to **+35 °C**
- Maximum sand content **150 g/m³**
- Capable of operating at depths of up to **100 metres** below water level (with an appropriately sized power cable)
- Vertical operation
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**

AVAILABLE UPON REQUEST

- ✗ **10, 20, 30 or 40 metres** long power cable
- ✗ Different voltage requirements 60 Hz frequency

PERFORMANCE RANGE

50 Hz



PATENTS:

- Patent No. EP3123031, EP2419642, 102022000007931

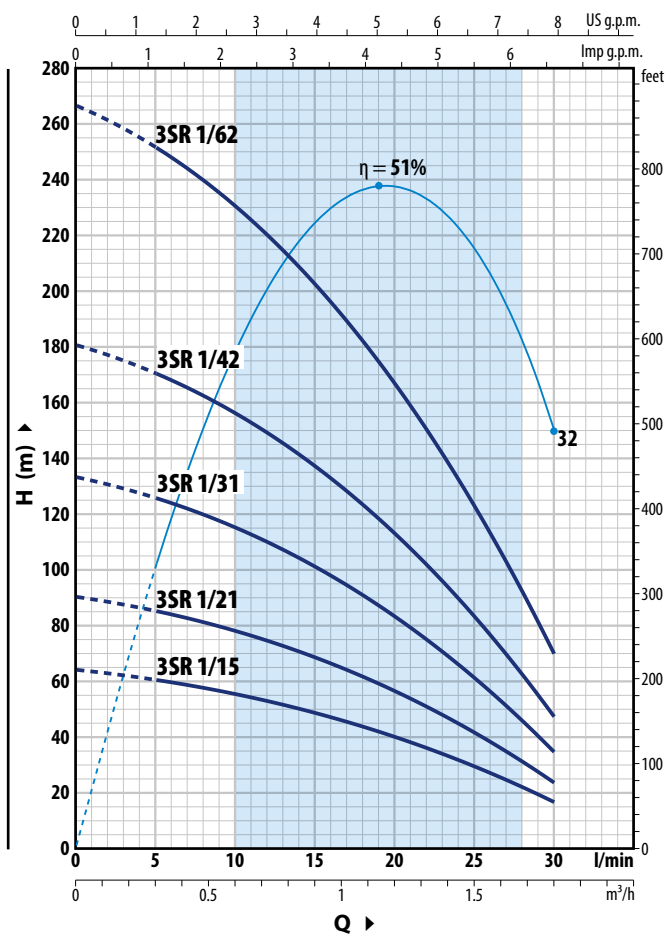


3SR 3" submersible pumps

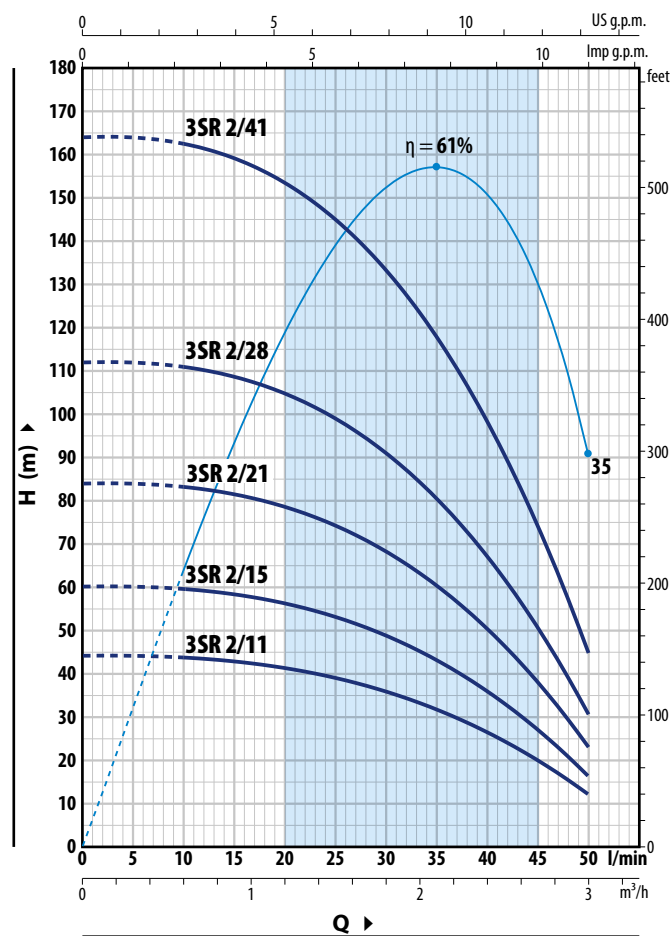
CURVES AND PERFORMANCE DATA

50 Hz

3SR 1



3SR 2



3SR 1

MODEL		POWER (P ₂)		Q	m ³ /h	0	0.3	0.6	0.9	1.2	1.5	1.8
Single-phase	Three-phase	kW	HP		l/min	0	5	10	15	20	25	30
3SRm 1/15	3SR 1/15	0.25	0.33	H m		64.5	61	56	49	40.5	30	17
3SRm 1/21	3SR 1/21	0.37	0.50			90	85	78	68.5	56.5	41.5	24
3SRm 1/31	3SR 1/31	0.55	0.75			133	126	115	101	83	61.5	35
3SRm 1/42	3SR 1/42	0.75	1			181	170	156	137	113	83	47.5
3SRm 1/62	3SR 1/62	1.1	1.5			267	252	230	203	167	123	70

3SR 2

MODEL		POWER (P ₂)		Q m ³ /h l/min	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3
Single-phase	Three-phase	kW	HP		0	10	15	20	25	30	35	40	50
3SRm 2/11	3SR2/11	0.25	0.33	H m	44	43.5	42.5	41	39	35.5	31.5	26.3	12
3SRm 2/15	3SR2/15	0.37	0.50		60	59.5	58	56	53	48.5	43	36	16.5
3SRm 2/21	3SR2/21	0.55	0.75		84	83	81	79	74	68	60.5	50.5	23
3SRm 2/28	3SR2/28	0.75	1		112	111	109	105	99	91	80	67	30.5
3SRm 2/41	3SR2/41	1.1	1.5		164	162	159	153	145	133	118	98	45

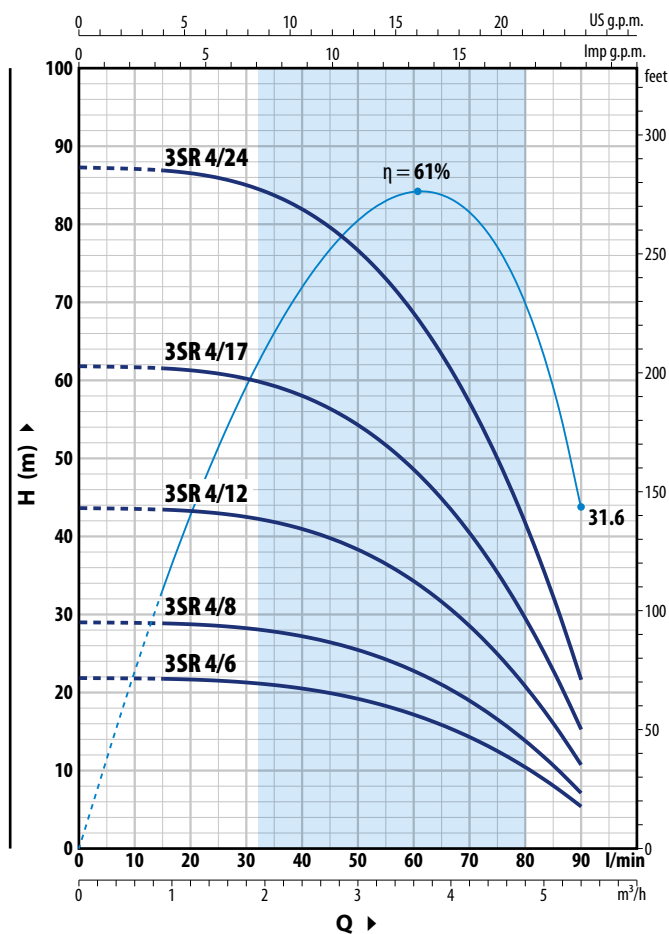
Q = Flow rate H = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

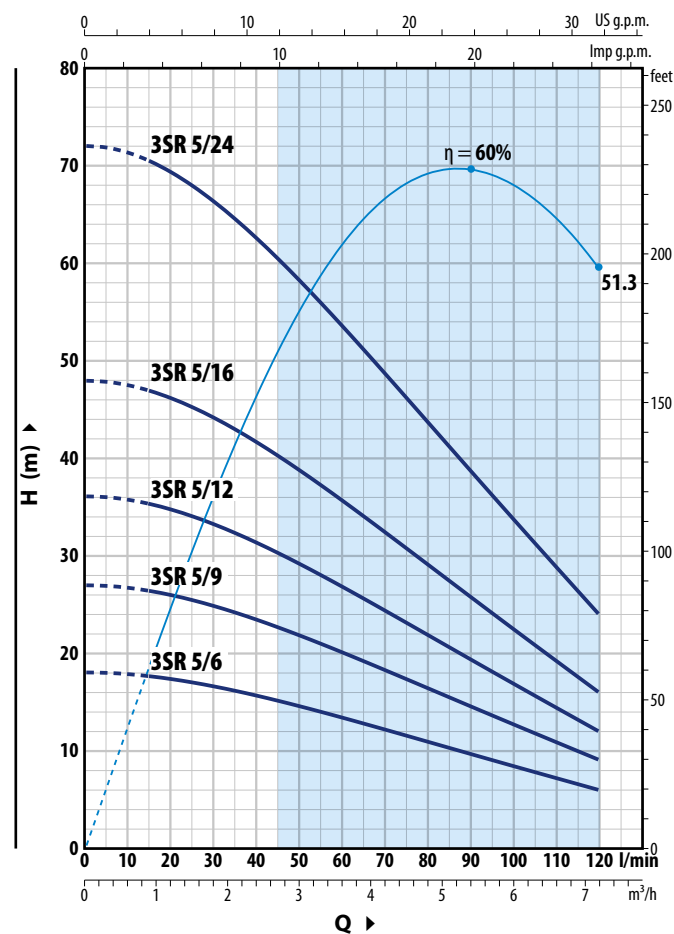
CURVES AND PERFORMANCE DATA

50 Hz

3SR 4



3SR 5



3SR 4

MODEL		POWER (P ₂)		Q m³/h l/min	0	0.9	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4
Single-phase	Three-phase	kW	HP		0	15	20	30	40	50	60	70	80	90
3SRm 4/6	3SR 4/6	0.25	0.33	H m	22	22	21.7	21.3	20.5	19.2	17.2	14.3	10.4	5.5
3SRm 4/8	3SR 4/8	0.37	0.50		29	29	29	28.5	27.5	25.6	22.9	19.1	13.9	7
3SRm 4/12	3SR 4/12	0.55	0.75		43.5	43.5	43.5	42.5	41	38.5	34.5	28.5	20.9	11
3SRm 4/17	3SR 4/17	0.75	1		62	61.5	61.5	60.5	58	54.5	48.5	40.5	29.5	15.5
3RSm 4/24	3SR 4/24	1.1	1.5		87	87	87	85	82	77	68.5	57	41.5	21.5

3SR5

MODEL		POWER (P ₂)		Q	m ³ /h	0	0.9	1.8	2.4	3	3.6	4.2	4.8	6	7.2
Single-phase	Three-phase	kW	HP		l/min	0	15	30	40	50	60	70	80	100	120
3SRm 5/6	3SR 5/6	0.25	0.33	H m	18	17.5	16.6	15.6	14.5	13.4	12.2	10.9	8.4	6	
3SRm 5/9	3SR 5/9	0.37	0.5		27	26.5	24.8	23.4	21.8	20.1	18.2	16.4	12.7	9	
3SRm 5/12	3SR 5/12	0.55	0.75		36	35	33	31	29	26.8	24.3	21.8	16.9	12	
3SRm 5/16	3SR 5/16	0.75	1		48	47	44	41.5	39	35.5	32.5	29	22.5	16	
3SRm 5/24	3SR 5/24	1.1	1.5		72	70	66.5	62.5	58	53.5	48.5	43.5	34	24	

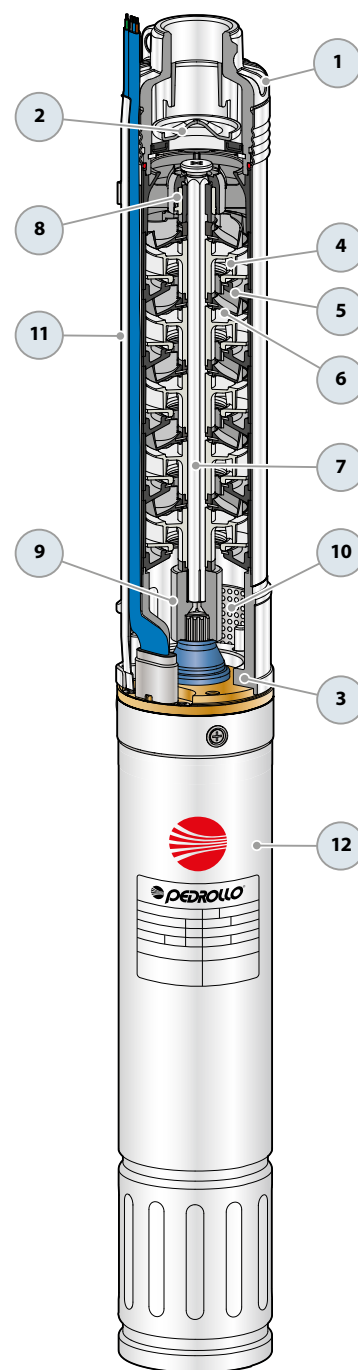
Q = Flow rate H = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

3SR 3" submersible pumps

MATERIALS AND COMPONENTS

1 Delivery port	Micro-cast AISI 304 stainless steel with thread according to ISO 228/1
2 Check valve	Stainless steel AISI 304
3 Motor bracket	AISI 304 micro-cast stainless steel, sized to NEMA standards
4 Impellers	Delrin® for 3SR 1-2-4 Noryl™ for 3SR 5
5 Diffusers	Noryl™ - AISI 304 stainless steel
6 Diffuser cover	Noryl™ - AISI 304 stainless steel for 3SR 1-2-4 Noryl™ for 3SR 5
7 Pump shaft	Stainless steel AISI 304
8 Pump bearings	Made of AISI 316L stainless steel coated with chromium oxide, for greater durability even in the presence of sand.
9 Tow coupling	Stainless steel AISI 316L
10 Filter	Stainless steel AISI 304
11 Cable sheath	Stainless steel AISI 304
12 Motor 3"	Rewindable oil-submerged motor



ABSORPTION

Single-phase versions - 230 V

MODEL	Power nominal P ₂		Axial Load	Capacitor (VL=450V)	ABSORPTION
	kW	HP			
230 V / 50 Hz			N	µF	
3SRm 1/15	0.25	0.33	800	12.5	3.2 A
3SRm 1/21	0.37	0.50		12.5	3.4 A
3SRm 1/31	0.55	0.75		16	4.5 A
3SRm 1/42	0.75	1		20	6.0 A
3SRm 1/62	1.1	1.5		30	8.0 A
3SRm 2/11	0.25	0.33	800	12.5	3.2 A
3SRm 2/15	0.37	0.50		12.5	3.4 A
3SRm 2/21	0.55	0.75		16	4.5 A
3SRm 2/28	0.75	1		20	6.0 A
3SRm 2/41	1.1	1.5		30	8.0 A
3SRm 4/6	0.25	0.33	800	12.5	3.2 A
3SRm 4/8	0.37	0.50		12.5	3.4 A
3SRm 4/12	0.55	0.75		16	4.5 A
3SRm 4/17	0.75	1		20	6.0 A
3RSm 4/24	1.1	1.5		30	8.0 A
3SRm 5/6	0.25	0.33	800	12.5	3.2 A
3SRm 5/9	0.37	0.5		12.5	3.4 A
3SRm 5/12	0.55	0.75		16	4.5 A
3SRm 5/16	0.75	1		20	6.0 A
3SRm 5/24	1.1	1.5		30	8.0 A

Three-phase versions - 400 V

MODEL	Power nominal P ₂		Axial Load	ABSORPTION
	kW	HP		
400 V / 50 Hz			N	
3SR 1/15	0.25	0.33	800	1.4 A
3SR 1/21	0.37	0.50		1.5 A
3SR 1/31	0.55	0.75		1.9 A
3SR 1/42	0.75	1		2.6 A
3SR 1/62	1.1	1.5		3.5 A
3SR2/11	0.25	0.33	800	1.4 A
3SR2/15	0.37	0.50		1.5 A
3SR2/21	0.55	0.75		1.9 A
3SR2/28	0.75	1		2.6 A
3SR2/41	1.1	1.5		3.5 A
3SR 4/6	0.25	0.33	800	1.4 A
3SR 4/8	0.37	0.50		1.5 A
3SR 4/12	0.55	0.75		1.9 A
3SR 4/17	0.75	1		2.6 A
3SR 4/24	1.1	1.5		3.5 A
3SR 5/6	0.25	0.33	800	1.4 A
3SR 5/9	0.37	0.5		1.5 A
3SR 5/12	0.55	0.75		1.9 A
3SR 5/16	0.75	1		2.6 A
3SR 5/24	1.1	1.5		3.5 A

DIMENSIONS AND WEIGHT

MODEL	PORT	DIMENSIONS mm				kg
		Ø	h1	h2	h3	
Single-ph.	DN	Ø	h1	h2	h3	1~
3SRm 1/15	1"	76	434	388	822	10.1
3SRm 1/21			547	388	935	10.7
3SRm 1/31			735	408	1143	12.3
3SRm 1/42			973	448	1421	14.7
3SRm 1/62			1380	488	1868	17.9
3SRm 2/11	1"	76	399	388	787	10.0
3SRm 2/15			489	388	877	10.5
3SRm 2/21			625	408	1033	11.8
3SRm 2/28			812	448	1260	13.9
3SRm 2/41			1135	488	1623	16.7
3SRm 4/6	1"	76	342	388	730	9.5
3SRm 4/8			406	388	794	9.8
3SRm 4/12			533	408	941	11.0
3SRm 4/17			693	448	1141	12.9
3SRm 4/24			946	488	1434	15.3
3SRm 5/6	1"	76	449	388	837	9.9
3SRm 5/9			599	388	987	10.7
3SRm 5/12			750	408	1158	12.1
3SRm 5/16			951	448	1399	14.4
3SRm 5/24			1352	488	1840	17.6
Three-ph.	DN	Ø	h1	h2	h3	3~
3SR 1/15	1"	76	434	368	802	9.7
3SR 1/21			547	368	915	10.2
3SR 1/31			735	388	1123	11.7
3SR 1/42			973	408	1381	13.6
3SR 1/62			1380	448	1828	16.8
3SR2/11	1"	76	399	368	767	9.6
3SR2/15			489	368	857	10.0
3SR2/21			625	388	1013	11.2
3SR2/28			812	408	1220	12.9
3SR2/41			1135	448	1583	15.6
3SR 4/6	1"	76	342	368	710	9.1
3SR 4/8			406	368	774	9.4
3SR 4/12			533	388	921	10.5
3SR 4/17			693	408	1101	11.9
3SR 4/24			946	448	1394	14.2
3SR 5/6	1"	76	449	368	817	9.5
3SR 5/9			599	368	967	10.3
3SR 5/12			750	388	1138	11.6
3SR 5/16			951	408	1359	13.4
3SR 5/24			1352	448	1800	16.5

